



altro

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CI/SFB

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March 2012

RESIN SYSTEMS 2012/2013

Altro resin solutions for floors and walls

www.altro.com





**Piddle Brewery, Dorset -
AltroCrete™ PU Excel, AltroGrip™ PU**

The floors in both the warehouse and the brewery look superb and are performing very well. They may look similar, but they have very different properties that are essential to each process. The warehouse floor is able to take a great deal of abuse from barrels, and has a non-slip surface to ensure safety for our workforce.

In the brewing areas, the high temperature of liquids, plus the caustic cleaning materials we use, means the floor has to be able to withstand a lot, while still looking good and being safe underfoot. I've had very positive feedback from the staff who say that all the floors are great surfaces to work on.

Adrian Saxby, Director of Industrial Flooring Solutions, which installed the Altro flooring



Altro Limited a company certified by SGS to ISO 9001 and ISO 14001.



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The company

Altro are a leading manufacturer and supplier of flooring and walls, founded in the UK in 1919. Our success at home and abroad is due to determined innovation from our people - matching evolving needs for surfaces that are both decorative and practical.

Altro back professional expertise and innovation with over 25 years of experience in the resin industry, which have resulted in the industry voting Altro as manufacturer of the year four years in succession.

Altro boast a turnover in excess of £110 million and more than 500 employees. Over recent years, we have introduced many solutions for functional and decorative interior surfaces and will continue to invest for the benefit of our customers. The Altro range covers heavy duty hygienic and decorative interior surfaces, with floors, walls, ceilings and doorsets.

The people

Altro's success is only made possible by our people. Through actively encouraging contribution from colleagues at all levels in the business, we continually improve our products and processes. We insist on the very best in working environments, training facilities, benefits, long-term security and, of course, personal health and safety. This approach has been validated by Altro's seventh consecutive appearance in The Times Top 100 Companies to Work For. The reward for both the company and our customers is working with some of the finest people the global workforce has to offer.



Investing in you

Along with the highest quality products we believe our customers deserve an equally good standard of service and support. Our Customer Care Centre staff are technically trained and support our commitment to a consistently excellent experience. We can help with any query you have, from where to find a quality contractor to which resin system best suits your needs. We regularly invite honest feedback through our "Voice of the Customer" interview programme.

As an international business with worldwide sales in many markets, Altro are committed to a uniform quality management system compliant with BS EN ISO 9001:2008.

Specialist industry knowledge

Altro are able to offer relevant solutions to ... the Food & Drink industry...Pharmaceutical & Cosmetics... Leisure & Hospitality... Education... Medical... General Industry... Retail... and Architects.

Our specialist consultants address the individual needs of the sectors and work with our contracting customers who bring years of installation expertise.

Whatever the application, Altro offer a comprehensive selection of polyurethane and epoxy resin finishes. We supply resin systems for different functional, decorative and budgetary requirements to guarantee optimum performance.



Technical competence

We actively assist the industry's governing body, FeRFA, in training new resin contractors. Altro represent the industry on technical committees, assisting and supporting in the development of British Standards for resins.

Compliance with legislation and standards

Altro's reputation, our enviable track record, our many years' development and supply of high quality resin systems and our clear market position on cleanability and ease of maintenance afford you even greater assistance and peace of mind. Slip resistance, ease of installation and hygiene are our main strengths – the availability of AltroSan™ integral bacteriostat in Altro resins helps to inhibit the growth of bacteria for the life of your resin floor. Independent tests deliver further peace of mind. AltroCrete PU was developed in association with Campden & Chorleywood Food Research Association and meets the requirements of 2004 EC Directives, adopted as Food Hygiene Regulations, January 2006.

Altro and the environment

At Altro, we place safety, hygiene and sustainability at the heart of our decision-making. Altro's resin manufacturing plant achieves ISO 14001 environmental accreditation and remain one of very few resin manufacturers worldwide who are able to operate within this standard. Altro Resin Systems explore every opportunity to reduce environmental impact of our goods and procedures, from product development to packaging and waste disposal. Altro are members of the halving waste to landfill initiative, were the first manufacturer to support the FeRFA resin industry recycling scheme and are delighted to have been included in The Sunday Times list of Best UK Green Companies.



Altro Limited a company certified by SGS to ISO 9001 and ISO 14001

Resin systems - where function meets design



Combining hygiene, durability and performance, Altro epoxy and polyurethane resin systems offer customers, designers and specifiers the choice they need for tailor-made solutions within a wide spectrum of environments.

With standard and rapid cure, functional and decorative grades, even bespoke options, Altro's robust and versatile resins are equally at home in industry, food preparation/processing, pharmaceuticals, electro-sensitive areas, health, education, defence establishments, emergency services, law enforcement, retail and a range of other environments. Please note - Altro do not promote resin floor finishes for domestic housing applications.

Our specialist laboratories have been formulating resins for over 25 years, offering experience and insight with which to enhance product development to achieve optimum performance. Altro's unique, product warranties significantly exceed those available as standard in the industry.



Resin floor classifications

The Resin Flooring Association (FeRFA) and British Standards Institute have produced a classification system to help you compare resin products from different sources. Our resins are classified in accordance with this system.

The Federation of Resin Formulators & Applicators Resin Flooring Classification

Type	Name	Description	Duty	Typical thickness
1	Floor seal	Applied in two or more coats. Generally solvent or water borne.	LD	up to 150µm
2	Floor coating	Applied in two or more coats. Generally solvent-free.	LD / MD	150µm to 300µm
3	High build floor coating	Applied in two or more coats. Generally solvent-free.	MD	300µm to 1000µm
4	Multi-layer flooring	Aggregate dressed systems based on multiple layers of floor coatings or flow-applied floorings, often described as 'sandwich' systems.	MD / HD	>2mm
5	Flow applied flooring	Often referred to as 'self-smoothing' or 'self-levelling' flooring and having a smooth surface.	MD / HD	2mm to 3mm
6	Resin screed flooring	Trowel-finished, heavily filled systems, generally incorporating a surface seal coat to minimise porosity.	MD / HD	>4mm
7	Heavy duty flowable flooring	Having a smooth surface.	HD / VHD	4mm to 6mm
8	Heavy duty resin flooring	Trowel-finished, aggregate filled systems, effectively impervious throughout their thickness.	VHD	>6mm

Light Duty (LD) - light foot traffic, occasional rubber tyred vehicles
 Medium Duty (MD) - regular foot traffic, frequent fork truck traffic, occasional hard plastic wheeled trolleys

Heavy Duty (HD) - constant fork lift truck traffic, hard plastic wheeled trolleys, some impact
 Very Heavy Duty (VHD) - severe heavily loaded traffic and impact

Altro assurance

Altro assurance of customer satisfaction

The Altro Assurance of Customer Satisfaction is a unique expression of our commitment to being a high performance flooring and walling supplier, in all aspects of supply, service and support to our customers and/or specifiers. As part of the assurance, Altro offer industry-leading, long product warranties on all our products, providing replacement material free of charge, when appropriate under the terms of the warranty.

Here are some of the ways in which the Altro Assurance will work for you...

Proven products

Technical information about Altro resins is given on the relevant product page and also on the Product Selector chart on pages 8-9.

Specialist contractors, training & technical manuals

Altro supply resin products through a network of specialist contractors based throughout the United Kingdom, Ireland and Benelux.

Altro offer courses to familiarise contractors with relevant product developments, supported by installation instructions and product data sheets, which are freely available to contractors and to specifiers. We are pleased to support the FeRFA industry-wide apprentice scheme and offer a complete service dedicated to the installation of Altro products to the highest standards.

Technical services department & trained specialist consultants

The Altro Technical Services Department provides on-site support if required for contractors, customers and specifiers. Altro's specialist consultants are familiar with the full product range and aspects of substrate preparation, correct installation techniques and detailing. This enables us to offer guidance and solutions to diverse problems that may arise and the installation techniques to be applied. Please note – Altro do not promote resin floor finishes for domestic applications, technical support cannot be provided for such installations.

Site visits arranged

Many customers and specifiers are reassured by visiting an existing site to inspect the Altro product under consideration. We can often arrange for a visit or contact with an existing customer for whom the product has been installed and is in use, if possible, in a similar working environment. We are fortunate in having a large customer base from which to draw and greatly appreciate our customers' co-operation. Please note – Altro do not promote resin floor finishes for domestic applications, visits cannot be arranged in such circumstances.

our promise to deliver



the highest quality products & services

Availability

Altro resin products are available throughout the United Kingdom, Ireland and Benelux direct from Altro or via the network of independent contractors, coatings may be available through selected distributors.

Test areas

When a site visit is not appropriate or where individual service conditions require, we can provide materials for the installation of a test area. This is typically to satisfy all parties that the product is suitable and will meet your exact needs. Please note, this excludes domestic applications where test areas and visits cannot be arranged.

Maintenance & after sales service

After your new Altro resin surface has been installed, detailed guidance is available on cleaning and maintenance, to help ensure the best return on your investment.

Commitment & customer satisfaction

Altro are committed to providing products and services to the highest possible standards. Please help us in this endeavour by telling us if we ever fail to give complete satisfaction.

Please note your statutory rights are not affected by the Altro Assurance of Customer Satisfaction. All contracts entered into by customers with the Company are subject to the Company's standard terms and conditions of sale, a copy of which is on the back of every invoice or may be obtained on request.



Customer support / samples



samples@altro.com

Our sample service ensures a prompt response, if you request your sample by phone, email or via the Altro website before 2pm, we will usually despatch the sample to you that day. Orders for non-standard or modified samples, or requests for a larger number of samples may require more time to fulfil. If you would like your samples sent by Special Delivery, please ask.

Altro do not promote resin floor finishes for domestic applications and therefore may not be able to provide a selection of samples in such cases.

Customer support / Altro specifications

NBS model specification guides for M12 and method statements for installation of resin flooring are available from Altro, by e-mail followed by hard copy, on disk or on www.altroresins.co.uk. Alternatively, call 01462 707600 for information.



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Design options

If what you're looking for isn't among our wide range of standard colours and finishes, please consult Altro. Together we may be able to produce the performance you need.

RESINS -
THE POSSIBILITIES ARE ALMOST ENDLESS.
GIVE US A CALL - 01462 707600



Products which perform

Altro resin systems provide versatile flooring for a wide variety of applications - from durable solutions which meet the needs of industrial production or custodial environments, through serviceable and attractive solutions for changing areas, corridors or craft rooms, to the creation of a stunning impression in entrance lobbies, retail or dining areas.

We have an extensive range of standard and special formulations to perform in the most demanding areas.

The Altro portfolio combines long term durability and life-cycle economy, offering the optimum solution for virtually any application. Altro have vast experience in formulating the best resins, expertly developed in our own specialist manufacturing plant. It's your assurance of the highest quality and it's backed by unique 2 to 15 year warranties (individual warranties are specified on each product page).

Examples include

- Heavy duty durable finishes to resist abrasion and impact
- Wide standard colour choice, with bespoke colour options
- Decorative designs for non-industrial environments
- Optional colour-matching service
- Chemically resistant formulations
- Slip-resistant variants for safety, providing peace of mind when specifying
- Seamless, impervious and coveable resins for hygienic environments
- Taint-free finishes available
- Rapid curing options for limited downtime
- Moisture tolerant polyurethanes or in-system dpm for damp substrates
- Specialist primers for contaminated subfloors
- Free of charge optional biocide to assist hygiene
- Temperature resistant and steam-cleanable grades available
- Static control options for volatile or sensitive areas
- Direct bonding to substrate for effective sealing and long-term durability
- Technical and on-site support

Product selection and application guide



Selection Criteria	AltroSeal UVR	AltroCoat	AltroShield SF	AltroTect	AltroCast	Altro Mosaic	AltroFlow EP	Altro TB Screed	Altro TB Screed Rapicure	AltroScreed Quartz EP
Thickness	90 - 180 microns	180 microns	340 microns	350 - 500 microns	1.25 mm	1 - 1.25 mm	1 - 3 mm	3 mm	3 mm	4 - 6 mm
Warranty	2	2	2	2	5	5	6	10	10	10
Life Expectancy	5	5	5	5	10	8	10	15	15	15
FeRFA Category	1	2	3	3	4	4	5	N/A	N/A	6
Impact Resistance	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Good	Good	Good	Good / Excellent
Wear Characteristics	Light Duty	Light Duty	Light / Medium Duty	Medium Duty	Medium Duty	Medium Duty	Medium / Heavy Duty	Medium Duty	Medium Duty	Medium / Heavy Duty
Potential for slip, FeRFA classification	N/A	N/A	N/A	N/A	Low	Moderate	High	Moderate	Moderate	Moderate
Service Temperature	Min 0°C Max +60°C	Min 0°C Max +60°C								
Hygiene	Excellent	Excellent	Excellent	Excellent	Good	Good	Excellent	Excellent	Excellent	Excellent
Ease of Cleaning	Easy	Easy	Easy	Easy	Moderate	Easy	Easy	Easy	Easy	Easy
Chemical Resistance	High	Moderate	Moderate							
Application Method	Roller	Roller	Roller	Roller	Roller	Roller	Trowel	Trowel	Trowel	Trowel



Altro SoloSafe	Altro Multiscreed Naturals	Altro Terrazzolite EP	AltroGrip EP	AltroGrip Quartz EP	AltroGrip PU	Altro TB + Cast	AltroFlow PUM	AltroCrete PU	AltroStat SD	AltroScreed Quartz EP SD
5 mm	4 mm	6 mm	2 - 6 mm	2 - 6 mm	4 mm	4.5 mm	2 - 4 mm	5 - 8 mm	3 mm	4 mm
10	10	10	6 - 10	6 - 10	10	10	6 - 10	15	6	10
20	15	15	10 - 15	10 - 15	15	15	10 - 15	20	10	15
6	6	6	4	4	4	6	7	8	5	6
Good / Excellent	Good / Excellent	Good / Excellent	Good / Excellent	Good / Excellent	Good / Excellent	Good / Excellent	Good / Excellent	Excellent	Good	Good / Excellent
Medium / Heavy Duty	Medium / Heavy Duty	Medium / Heavy Duty	Medium / Heavy Duty	Medium / Heavy Duty	Medium / Heavy Duty	Medium / Heavy Duty	Heavy Duty	Very Heavy Duty	Medium / Heavy Duty	Medium / Heavy Duty
Low	Moderate	N/A	Low	Low	Low	Low	Moderate	Low	Moderate	Moderate
Min 0°C Max +60°C	Min 0°C Max +60°C	Min 0°C Max +60°C	Min 0°C Max +60°C	Min 0°C Max +60°C	Min -40°C Max +60°C	Min 0°C Max +60°C	Min -0°C Max +60°C	Min -40°C Max +120°C	Min 0°C Max +60°C	Min 0°C Max +60°C
Satisfactory	Excellent	Good	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Excellent	Good	Excellent	Excellent
Moderate	Easy	Moderate	Moderate	Moderate	Moderate	Moderate	Easy	Moderate	Easy	Moderate
Moderate	Moderate	Low	Moderate	Moderate	High	Moderate	High	High	Moderate	Moderate
Trowel	Trowel	Trowel	Trowel	Trowel	Trowel	Trowel	Trowel	Trowel	Trowel	Trowel

Light Duty (LD) - light foot traffic, occasional rubber tyred vehicles
 Medium Duty (MD) - regular foot traffic, frequent fork truck traffic, occasional hard plastic wheeled trolleys

Heavy Duty (HD) - constant fork lift truck traffic, hard plastic wheeled trolleys, some impact
 Very Heavy Duty (VHD) - severe heavily loaded traffic and impact



AltroSeal UVR-WB

FeRFA type 1

A twin-pack, water-borne polyurethane clear resin seal with a matt finish. This coating has been developed to provide a cosmetic seal coat to our epoxy resin systems where a matt finish is preferable. Approximately 50 microns per coat.

AltroSeal UVR

FeRFA type 1

A twin-pack, solvent-based polyurethane resin seal with a flat-silk finish, it provides excellent resistance to a wide range of chemicals and UV light. Ideal for use directly to substrate in light-duty areas where chemical spillage is likely, or as a final seal coat to epoxy resin systems to afford increased chemical resistance. Approximately 90 microns per coat.

AltroSeal UVR Plus – all the benefits of AltroSeal UVR and in addition provides a degree of slip resistance through the incorporation of a micaceous mineral which lightly textures the surface.

Typical applications:

- packing areas
- pharmaceutical

- craft/design rooms
- defence
- laboratories

AltroCoat

FeRFA type 2

A twin-pack, water-miscible, moisture tolerant epoxy coating with a flat-silk finish. It has been designed to tolerate construction moisture and is ideally suited for use onto newly installed cementitious substrates. With greatly reduced substrate drying time, AltroCoat provides a fast-track, cost-effective solution, permitting the passage of moisture vapour from the substrate, whilst still providing a barrier against contamination from operations above. Approximately 90 microns per coat.

AltroCoat Plus – all the benefits of AltroCoat and in addition provides a degree of slip resistance through the incorporation of a micaceous mineral which lightly textures the surface.

Typical applications:

- warehousing/storage
- vehicle workshops

Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.



Cloud LRV 44	Doe LRV 32	Winter Grey LRV 16	Black LRV 0.7	Burnt Chocolate LRV 5	Wine Red LRV 6	Magenta LRV 10
Dawn LRV 38	Flint LRV 24	Wedgewood LRV 14	Sark LRV 9	Indigo LRV 3	Ramone LRV 36	Ruby LRV 9
Gunmetal LRV 22	Norfolk LRV 23	Magic LRV 10	Cyprus LRV 20	Spruce LRV 20	Ranch LRV 16	Tropic LRV 17
Topaz LRV 42	Toast LRV 24	Portland Grey LRV 41	Patina LRV 10	Jade LRV 28	Safety Yellow*† LRV 53 non-standard option	Safety Red*† LRV 12 non-standard option

This product is also available in Clear

FeRFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium sulphate screeds to be suitable for overlayment with resin floor finishes. Other colours may be made to order, lead time and charges may apply.

UVR technology reduces the effect of UV light on long-term colour stability; however, pale colours may show some cosmetic discolouration on exposure to UV light. Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining particularly on premature or prolonged contact with chemicals including water. Please contact Altro for further information.

Altro resins are specifically designed for use in industrial and commercial environments and perform well in these areas. However, Altro do not promote resin products for use in domestic applications, on-site support is not available for such installations.

Please consult Altro for all chemical resistance details.

Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: LRV = Light Reflectance Value

† Safety colours FOR SMALL DEMARCATION AREAS ONLY, A WHITE UNDERCOAT SHOULD BE USED AND ADDITIONAL COATS MAY BE REQUIRED, PLEASE REFER TO ALTRO. * Non-standard COST options

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL

AltroShield™ SF / AltroTect™

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KLM UK Engineering

AltroShield SF

FeRFA type 3

A twin-pack, solvent-free high-build epoxy resin coating supplied in functional colours with a gloss finish, it has been designed to be applied directly to substrate in two coats with a nominal thickness of 340 microns. Ideally suited to storage areas, warehouses, aviation hangars and light industrial premises, it has excellent chemical and abrasion resistance.

Important

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer scratching, chemical attack or staining. Please contact Altro for further information.

AltroTect

FeRFA type 3

A twin-pack solvent-free epoxy high-build resin coating in a wider standard colour range with options for bespoke colours. It provides a gloss finish which should be applied in two coats directly to the substrate. It has a nominal thickness of 350 to 500 microns, AltroTect has excellent chemical and abrasion resistance. This coating is also equally suited to warehouses, industrial units and aviation hangers.

AltroTect Plus – all the benefits of AltroTect and in addition provides a degree of slip resistance through the incorporation of a micaceous mineral which lightly textures the surface.

Typical applications:

- packing areas
- warehousing/storage
- vehicle workshops
- defence

**Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.**



AltroTect colour chart

Cloud LRV 50	Doe LRV 35	Winter Grey LRV 19	Black LRV 0.5	Burnt Chocolate LRV 5	Wine Red LRV 6	Magenta LRV 10
Dawn LRV 42	Flint LRV 28	Wedgewood LRV 20	Sark LRV 10	Indigo LRV 3	Ramone LRV 32	Ruby LRV 8
Gunmetal LRV 23	Norfolk LRV 20	Magic LRV 10	Cyprus LRV 21	Spruce LRV 29	Ranch LRV 16	Tropic LRV 15
Topaz LRV 42	Toast LRV 26	Portland Grey LRV 43	Patina LRV 11	Jade LRV 28	Safety Yellow*† LRV 52 non-standard option	Safety Red*† LRV 12 non-standard option

AltroTect is also available in Clear

AltroShield SF colour chart

Light Grey LRV 47	Mid Grey LRV 33	Dark Grey LRV 22	Blue LRV 23	Green LRV 19	Red LRV 12

FeRFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium sulphate screeds to be suitable for overlayment with resin floor finishes.

Pale colours may show some cosmetic discolouration on exposure to UV light. Please contact Altro technical services for further information.

Altro resins are specifically designed for use in industrial and commercial environments and perform well in these areas. However, Altro do not promote resin products for use in domestic applications, on-site support is not available for such installations.

Please consult Altro for all chemical resistance details.

Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: LRV = Light Reflectance Value

† Safety colours FOR SMALL DEMARCATION AREAS ONLY, A WHITE UNDERCOAT SHOULD BE USED AND ADDITIONAL COATS MAY BE REQUIRED, PLEASE REFER TO ALTRO. * Non-standard COST options

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



AltroCast

FeRFA type 4

A solvent-free, epoxy resin combination system that utilises AltroTect epoxy coating in conjunction with quartz aggregate. The system is designed to provide a durable monolithic floor finish which meets legislative slip resistance requirements for wet conditions, complying with BS8204 2008 Part 6 – 6.6 and 11.5. AltroCast produces a textured gloss finish which is available in either single or multi-coloured decorative finishes. Nominal system thickness of 1.25mm.

AltroCast Single Colour – AltroTect Coloured with a full scatter of single colour quartz aggregate finished with two coats of AltroTect Coloured epoxy resin (standard colour chart on page 13 or bespoke colours).

AltroCast Multi-colour – AltroTect Coloured with a full scatter of AltroCast decorative aggregate, sealed with two coats of AltroTect Clear epoxy resin to maintain the multi-coloured appearance.

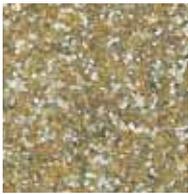
Typical applications:

- changing areas
- showers/bathrooms
- bars/cellars

Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.



AltroCast colour chart



Tweedsmuir

LRV 20



Exmoor

LRV 15



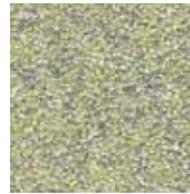
Highland

LRV 22



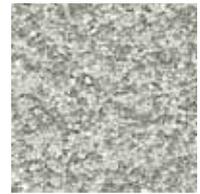
Dartmoor

LRV 15



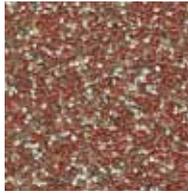
Mendip

LRV 34



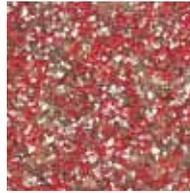
Southdown

LRV 36



Brecon

LRV 12



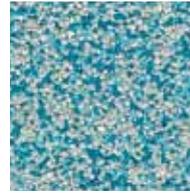
Sidlaw

LRV 15



Malvern

LRV 10



Wicklow

LRV 26



Cuillin

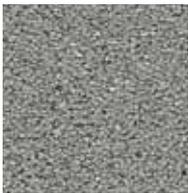
LRV 30



Peak

LRV 22

AltroCast Natural colour chart



Mountain

LRV 17



Rock

LRV 30



Dune

LRV 28



Desert

LRV 29



Cliff

LRV 32



Ravine

LRV 11

FeRFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium sulphate screeds to be suitable for overlayment with resin floor finishes.

Pale colours may show some cosmetic discolouration on exposure to UV light. Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining. Please contact Altro for further information.

Altro resins are specifically designed for use in industrial and commercial environments and perform well in these areas. However, Altro do not promote resin products for use in domestic applications, on-site support is not available for such installations.

Please consult Altro for all chemical resistance details.

Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: **LRV** = Light Reflectance Value

If you would like to vary the balance of colours within these blends, please consult Altro sales for more information.

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



BPI Consumer Products

Altro Mosaic

FeRFA type 4

A solvent-free, epoxy resin combination system that encapsulates decorative acrylic flakes in AltroTect Clear epoxy resin. Select from two distinctly different systems, one offering a vibrant glossy textured finish, the other a subtle glazed smooth appearance. Altro Mosaic has a nominal thickness of 1.25mm.

Altro Mosaic Texture – AltroTect Coloured with a full scatter of multi-coloured paint flakes sealed with two coats of AltroTect Clear to leave a textured high gloss finish.

Altro Mosaic Glaze – AltroTect Coloured with a full scatter of multi-coloured paint flakes sealed with three coats of AltroTect Clear and a final seal of AltroSeal UVR-WB, to leave a glazed matt finish.

Typical applications:

- communal areas
- walkways
- corridors
- dining areas / canteens

Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.



Cumulus

LRV 40



Squall

LRV 19



Rain

LRV 23



Daylight

LRV 34



Tropical

LRV 32



Forties

LRV 27



Mist

LRV 35



Isobar

LRV 11



Solstice

LRV 19



Equinox

LRV 15



Haze

LRV 23



Levanter

LRV 35



Sandstorm

LRV 10



Nimbus

LRV 6



Thunder

LRV 10

FerFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium-sulphate screeds to be suitable for overlayment with resin floor finishes.

Pale colours may show some cosmetic discolouration on exposure to UV light. Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining. Please contact Altro for further information.

Altro resins are specifically designed for use in industrial and commercial environments and perform well in these areas. However, Altro do not promote resin products for use in domestic applications, on-site support is not available for such installations.

Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: **LRV** = Light Reflectance Value

If you would like to vary the balance of colours within these blends, please consult Altro sales for more information.

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



British American Tobacco

AltroFlow

FeRFA type 5

A three-part solvent-free, epoxy resin system for application to level floors, providing an easily cleaned smooth, seamless surface, with good chemical and impact resistance. AltroFlow is finished to a high gloss and available with a choice of thickness of 1mm, 2mm and 3mm, to suit the texture of the substrate.

AltroFlow's versatility means that it is equally suited to many situations. It is regularly installed in commercial, pharmaceutical and industrial dry-process environments.

Modified AltroFlow systems are available where slip-resistance is required. Please see AltroGrip and AltroGrip Quartz on pages 32-33.

Typical applications:

- packing areas/storage
- pharmaceutical
- metal fabrication
- defence
- healthcare

Important

In common with other single colour high gloss finishes, AltroFlow may exhibit scratching with traffic and abrasion, this is particularly prominent in darker colours. To minimise this effect, various options are available i.e. correct maintenance and entrance matting. Please consult Altro sales for more information.

Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.



Cloud LRV 55	Doe LRV 34	Winter Grey LRV 28	Black LRV 0.5	Burnt Chocolate LRV 4	Wine Red LRV 6	Magenta LRV 14
Dawn LRV 41	Flint LRV 25	Wedgewood LRV 25	Sark LRV 11	Indigo LRV 4	Ramone LRV 35	Ruby LRV 9
Gunmetal LRV 23	Norfolk LRV 25	Magic LRV 11	Cyprus LRV 24	Spruce LRV 31	Ranch LRV 16	Tropic LRV 20
Topaz LRV 47	Toast LRV 30	Portland Grey LRV 41	Patina LRV 13	Jade LRV 32		

FerFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium-sulphate screeds to be suitable for overlayment with resin floor finishes.

Bespoke colours may be available to order, a special grade of aggregate is required for lighter or more vibrant colours, lead-time and charges may apply.

Pale colours may show some cosmetic discolouration on exposure to UV light.

Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining. Please contact Altro for further information.

Altro resins are specifically designed for use in industrial and commercial environments and perform well in these areas. However, Altro do not promote resin products for use in domestic applications, on-site support is not available for such installations.

Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: **LRV** = Light Reflectance Value

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Altro TB Screed™ / Altro TB Screed Rapicure™ / Altro TB + Cast™

20



Coventry Motor Museum

Altro TB Screed

FeRFA type N/A

A three-part solvent-free epoxy resin system comprising smaller size decorative quartz aggregate bound in clear resin and finished with clear seal coats. This combination of components provides a high-strength chemically resistant decorative floor finish. Altro TB Screed Natural combines the beauty of natural colours with practical performance. Both systems have a nominal thickness of 3mm, can be coved, laid to falls or applied to vertical surfaces.

Altro TB Screed Rapicure

FeRFA type N/A

All the credentials of Altro TB Screed with the added benefit of seals from Altro's Rapicure Technology, allowing early return to service.

Typical applications:

- laboratories
- communal areas/walkways
- offices
- restaurants

Altro TB + Cast

FeRFA type 6

A three-part solvent-free decorative epoxy screed system offering excellent slip-resistance with a nominal thickness of 4.5mm. This system has been specifically formulated for wet areas such as kitchens, shower areas and wet production areas where slip-resistance is a priority. Altro TB + Cast can be laid to drainage falls and Altro TB Screed allows the formation of matching cove sections, kerb up-stands or wall render for fully-tanked wet-room situations.

Typical applications:

- food and drink
- changing areas/showers
- bars/cellars/kitchens/serveries

Colour flexibility

If you wish to vary the colour-blends shown opposite, for example to achieve LRV differential, please consult your Altro Technical Consultant. Conditions may apply.

**Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.**



samples@altro.com



Tweedsmuir

LRV 20



Exmoor

LRV 15



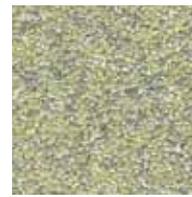
Highland

LRV 22



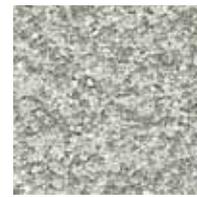
Dartmoor

LRV 15



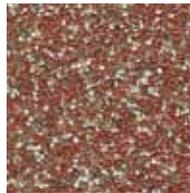
Mendip

LRV 34



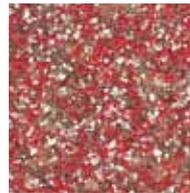
Southdown

LRV 36



Brecon

LRV 12



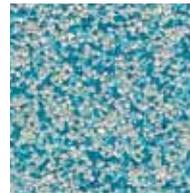
Sidlaw

LRV 15



Malvern

LRV 10



Wicklow

LRV 26



Cuillin

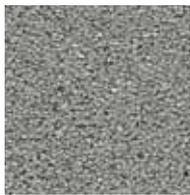
LRV 30



Peak

LRV 22

Natural colour chart



Mountain

LRV 17



Rock

LRV 30



Dune

LRV 28



Desert

LRV 29



Cliff

LRV 32



Ravine

LRV 11

FerFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium-sulphate screeds to be suitable for overlayment with resin floor finishes.

Pale colours may show some cosmetic discolouration on exposure to UV light. Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining. Please contact Altro for further information.

Altro resins are specifically designed for use in industrial and commercial environments and perform well in these areas. However, Altro do not promote resin products for use in domestic applications, on-site support is not available for such installations.

Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: **LRV** = Light Reflectance Value

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



St Christopher School

AltroScreed Quartz EP

FeRFA type 6

A three-part solvent-free system in which blended decorative quartz aggregate is bound with clear epoxy resin and finished with clear seal coats. This product provides a high-strength chemically resistant decorative floor surface that can be coved and laid to drainage falls. It is available in nominal thicknesses of 4mm to 6mm. With moderate slip-resistance this system is ideally suited to medium-duty production areas, traffic routes, entrance lobbies, circulation areas, CDT rooms, laboratories etc.

AltroScreed Quartz Boutique

FeRFA type 6

This system offers all of the benefits of AltroScreed Quartz EP, but in a colour palette developed to offer a more ambitious design opportunity. Inspired by the beauty of gem stones, this range offers a selection of stronger colours for those who wish to make a design statement. Available in 4mm to 6mm.

Typical applications:

- food and drink packing
- laboratories/clean rooms
- PE changing areas
- walkways
- custodial/containment
- retail
- dining
- offices

Colour flexibility

If you wish to vary the colour-blends shown opposite, for example to achieve LRV differential, please consult your Altro Technical Consultant. Conditions may apply.

Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.



AltroScreed Quartz EP colour chart



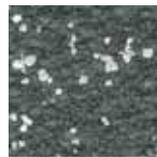
Jumaana

LRV 44



Opal

LRV 30



Kyanite

LRV 9



Onyx

LRV 8



Iona

LRV 5



Narooma

LRV 14



Amber

LRV 42



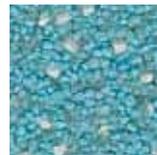
Pyrite

LRV 20



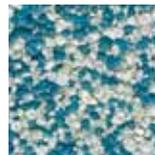
Giza

LRV 27



Turquoise

LRV 25



Ula

LRV 22



Lapis

LRV 11



Alcazar

LRV 24



Yakootah

LRV 23



Rachelle

LRV 19



Greta

LRV 18



Peketo

LRV 12



Citrine

LRV 26



Pearl

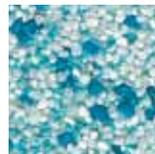
LRV 33

AltroScreed Quartz Boutique colour chart



Moonstone

LRV 59



Almas

LRV 47



Chrystal

LRV 47



Selenite

LRV 19



Soraya

LRV 13



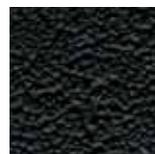
Cara

LRV 34



Jola

LRV 14



Tourmaline

LRV 4

FeRFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium-sulphate screeds to be suitable for overlayment with resin floor finishes.

Pale colours may show some cosmetic discolouration on exposure to UV light. Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining. Please contact Altro for further information.

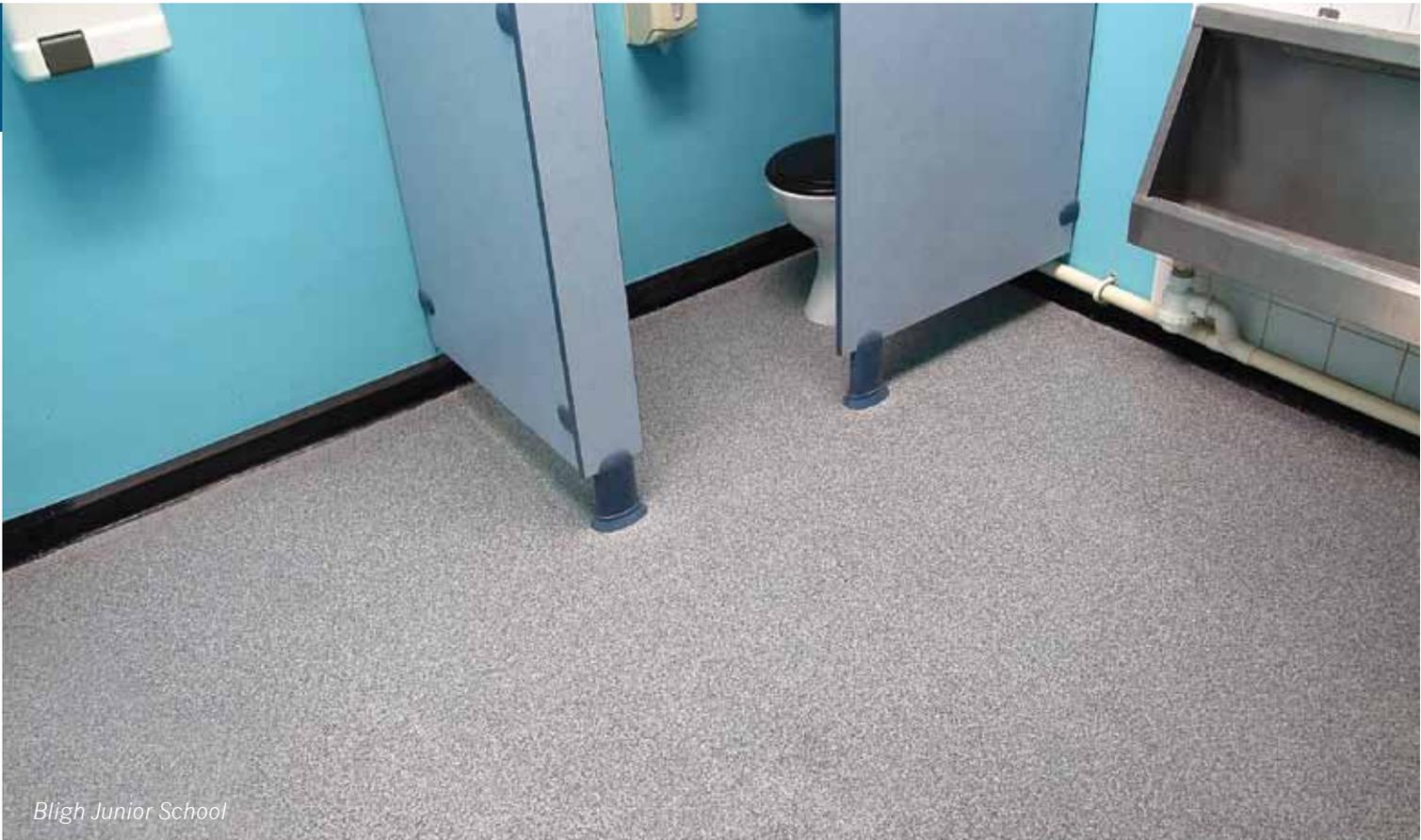
Altro resins are specifically designed for use in industrial and commercial environments and perform well in these areas. However, Altro do not promote resin products for use in domestic applications, on-site support is not available for such installations.

Please consult Altro for all chemical resistance details.

Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: LRV = Light Reflectance Value

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL



Altro SoloSafe

FeRFA type 6

A slip-resistant, easy-clean, decorative three-part solvent-free epoxy resin screed incorporating Rapicure technology. This fast-cure, low-odour screed is ideal for a wide variety of areas where speed of installation and a rapid return to service are essential. This system is self-sealing, so reduces the time associated with the installation. With a unique design, the inherent slip-resistance is rated R11 and effective in both barefoot and shod environments whilst remaining hygienic and easy to clean. Altro SoloSafe contains up to 30% content of post-consumer recyclate. The product has been designed to be returned to service after one day and suits such areas as leisure, education, hospitality, retail, food, drink and pharmaceutical industries, as well as HMP, MOD and the emergency services.

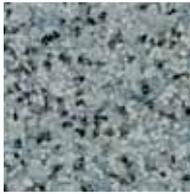
Typical applications:

- food and drink production
- laboratories/craft/design rooms
- PE changing areas
- walkways
- custodial/containment
- healthcare
- bars
- changing areas

Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.



samples@altro.com



Thames

LRV 23



Tamar

LRV 20



Cam

LRV 16



Clyde

LRV 25



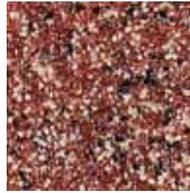
Wye

LRV 23



Shannon

LRV 20



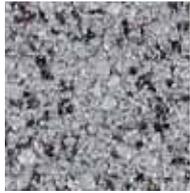
Humber

LRV 11



Medway

LRV 28



Conway

LRV 16



Avon

LRV 32



Liffey

LRV 12



Trent

LRV 36



Tyne

LRV 16



Derwent

LRV 28

FeRFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium-sulphate screeds to be suitable for overlayment with resin floor finishes.

Pale colours may show some cosmetic discolouration on exposure to UV light. Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining. Please contact Altro for further information.

Altro resins are specifically designed for use in industrial and commercial environments and perform well in these areas. However, Altro do not promote resin products for use in domestic applications, on-site support is not available for such installations.

Please consult Altro for all chemical resistance details.

Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: **LRV** = Light Reflectance Value

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Altro Multiscreed™ EP Naturals

26



Altro Multiscreed EP Naturals

FeRFA type 6

A three-part, solvent-free epoxy resin system with an updated natural appearance, highlighting our ten most popular colourways which evoke tones of concrete and stone. Altro Multiscreed EP has improved performance and produces a high strength floor screed providing exceptional abrasion and chemical resistance. This system has a nominal thickness of 4mm, can be coved and laid to falls.

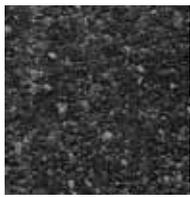
Typical applications:

- communal areas
- laboratories/craft/design rooms
- retail
- dining
- offices
- corridors

Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.



samples@altro.com



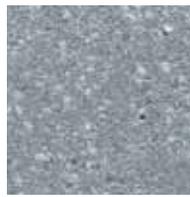
Black Granite

LRV 6



Silver Pumice

LRV 18



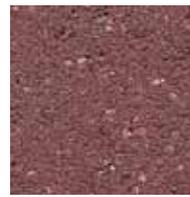
White Yorkstone

LRV 40



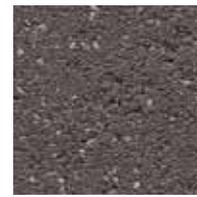
Blue Basalt

LRV 11



Red Sandstone

LRV 9



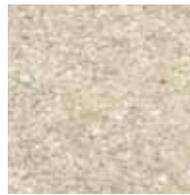
Chicago Brownstone

LRV 9



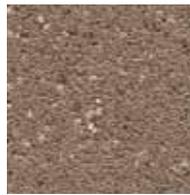
Bath Stone

LRV 23



Ivory Soapstone

LRV 41



Desert Fossilstone

LRV 17

FeRFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium-sulphate screeds to be suitable for overlayment with resin floor finishes.

Pale colours may show some cosmetic discolouration on exposure to UV light. Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining. Please contact Altro for further information.

Altro resins are specifically designed for use in industrial and commercial environments and perform well in these areas. However, Altro do not promote resin products for use in domestic applications, on-site support is not available for such installations.

Please consult Altro for all chemical resistance details.

Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: **LRV** = Light Reflectance Value

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL

Altro Terrazzolite™ EP

28



Morrisons Deli

Altro Terrazzolite EP

FeRFA type 6

A decorative four-part solvent-free epoxy resin system, Altro Terrazzolite EP will provide design flexibility and revolutionise the way you think about resin floor applications. A lightweight, seamless, sophisticated marble-look resin that will deliver more than a touch of class to any corridor, reception or retail area. This system utilises naturally-coloured marble chips bound together with a coloured epoxy resin and is then ground and polished. It has a nominal thickness of 6mm, and uses matching sections of perimeter skirting which are pre-formed off-site.

Available in 27 standard background colours and five standard marble chip colours to produce a custom design which is hard-wearing and easy to clean.

Typical applications:

- communal areas
- retail
- receptions

Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.



Your choice of 27 background colours

Cloud LRV 55	Doe LRV 34	Winter Grey LRV 28	Black LRV 0.5	Burnt Chocolate LRV 4	Wine Red LRV 6	Magenta LRV 14
Dawn LRV 41	Flint LRV 25	Wedgewood LRV 25	Sark LRV 11	Indigo LRV 4	Ramone LRV 35	Ruby LRV 9
Gunmetal LRV 23	Norfolk LRV 25	Magic LRV 11	Cyprus LRV 24	Spruce LRV 31	Ranch LRV 16	Tropic LRV 20
Topaz LRV 47	Toast LRV 30	Portland Grey LRV 41	Patina LRV 13	Jade LRV 32	Ivory LRV TBC	

Continued overleaf...

FerFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium-sulphate screeds to be suitable for overlayment with resin floor finishes.

In common with other single colour high gloss finishes, AltroFlow may exhibit scratching with traffic and abrasion, this is particularly prominent in darker colours. To minimise this effect, various options are available i.e. correct maintenance and entrance matting.

Please consult Altro sales for more information.

Bespoke colours may be available to order, a special grade of aggregate is required for lighter or more vibrant colours, lead-time and charges may apply.

Pale colours may show some cosmetic discolouration on exposure to UV light.

Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining. Please contact Altro for further information.

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Codes: **LRV** = Light Reflectance Value

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Your choice of 5 marble chip colours



Turkish White



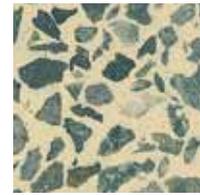
Italian White



Grey



Verona



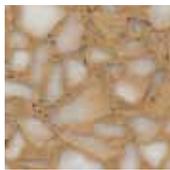
Verdi

Mix and match to create the perfect blend - here are some finished examples

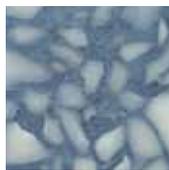
Turkish White Marble Chip



Turkish White on Ivory



Turkish White on Toast



Turkish White on Wedgewood

Italian White Marble Chip



Italian White on Gunmetal



Italian White on Toast



Italian White on Magenta

Grey Marble Chip



Grey on Ivory



Grey on Dawn

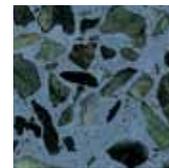


Grey on Magenta

Verdi Marble Chip



Verdi on Ivory



Verdi on Wedgewood

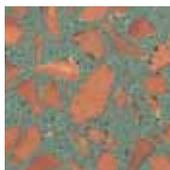


Verdi on Toast

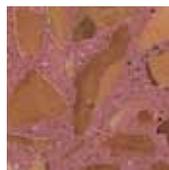
Verona Marble Chip



Verona on Toast



Verona on Spruce



Verona on Ramone

FerFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium-sulphate screeds to be suitable for overlay with resin floor finishes.

In common with other single colour high gloss finishes, AltroFlow may exhibit scratching with traffic and abrasion, this is particularly prominent in darker colours. To minimise this effect, various options are available i.e. correct maintenance and entrance matting.

Please consult Altro sales for more information.

Bespoke colours may be available to order, a special grade of aggregate is required for lighter or more vibrant colours, lead-time and charges may apply.

Pale colours may show some cosmetic discolouration on exposure to UV light.

Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining. Please contact Altro for further information.

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LRV value dependent on the combination chosen and polished surface finish. As a guide refer to the background colour results on page 29.

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL

AltroGrip™ EP / AltroGrip Quartz™ EP



AltroGrip EP

FeRFA type 4

A modified flow-applied system incorporating aggregate to produce a system providing excellent impact, abrasion and chemical resistance. This system is available in nominal thicknesses of 2mm, 4mm and 6mm, which are determined by the thickness of AltroFlow resin used as the foundation of the system. A single colour system available in 26 standard colours.

Typical applications:

- vehicle workshops
- defence
- storage

AltroGrip Quartz EP

FeRFA type 4

A decorative or single colour system providing a greater degree of slip-resistance than AltroGrip due to the larger aggregate size. The decorative systems utilise AltroScreed Quartz or AltroScreed Quartz Boutique colourways, added to an AltroFlow base to increase slip-resistance, in thicknesses of 2mm, 4mm and 6mm and sealed with clear epoxy. Please see the AltroScreed Quartz EP colour chart on page 23.

Typical applications:

- pharmaceutical
- vehicle workshops
- mortuaries

Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.



AltroGrip standard single-colour chart

Cloud LRV 50	Doe LRV 35	Winter Grey LRV 19	Black LRV 0.5	Burnt Chocolate LRV 5	Wine Red LRV 6	Magenta LRV 10
Dawn LRV 42	Flint LRV 28	Wedgewood LRV 20	Sark LRV 10	Indigo LRV 3	Ramone LRV 32	Ruby LRV 8
Gunmetal LRV 23	Norfolk LRV 20	Magic LRV 10	Cyprus LRV 21	Spruce LRV 29	Ranch LRV 16	Tropic LRV 15
Topaz LRV 42	Toast LRV 26	Portland Grey LRV 43	Patina LRV 11	Jade LRV 28		

FerFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium-sulphate screeds to be suitable for overlayment with resin floor finishes.

In common with other single colour high gloss finishes, AltroFlow may exhibit scratching with traffic and abrasion, this is particularly prominent in darker colours. To minimise this effect, various options are available i.e. correct maintenance and entrance matting.

Please consult Altro sales for more information.

Bespoke colours may be available to order, a special grade of aggregate is required for lighter or more vibrant colours, lead-time and charges may apply.

Pale colours may show some cosmetic discolouration on exposure to UV light.

Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining. Please contact Altro for further information.

Altro resins are specifically designed for use in industrial and commercial environments and perform well in these areas. However, Altro do not promote resin products for use in domestic applications, on-site support is not available for such installations.

Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: LRV = Light Reflectance Value

EXPERIENCE HAS SHOWN THAT PRINTING CANNOT REPRODUCE COLOURS ACCURATELY. IF COLOUR CHOICE IS CRITICAL, PLEASE REQUEST A SAMPLE OF THE MATERIAL

AltroCrete PU Excel™ / AltroCrete PU Fast-Track™ / AltroFlow™ PUM / AltroGrip™ PU

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CAW Ingredients

AltroCrete PU Excel

A 5-9mm textured floor finish for heavy duty areas of potential spillage, increased temperature range, (-40°C to +120°C at 8mm+). Particularly suited to food and drink processing areas or heavy duty kitchens, this system also offers excellent resistance to impact or abrasion and resistance to a wide range of chemicals including organic acids found in foodstuffs. Available in standard cure or fast-track options.

AltroCrete PU Fast-Track

With all of the performance of AltroCrete PU Excel, but with the added benefit of a rapid overnight cure.

Typical applications:

- food and drink
- pharmaceutical
- metal fabrication/vehicle workshops
- healthcare
- bars/cellars/kitchens/serveries

AltroFlow PUM

A medium duty 2-4mm flow applied, smooth surface, matt finish with a degree of slip resistance in dry process areas. It is designed for dry food production areas and general industrial environments such as aviation or engineering.

Typical applications:

- food and drink
- laboratories/clean rooms
- metal fabrication/vehicle workshops

AltroGrip PU - NEW PRODUCT

This multi-layer combination system utilises AltroFlow PUM polyurethane self-smoothing screed with a hard wearing slip resistant aggregate dressing. It provides the greater chemical resistance of polyurethanes to organic acids, to create a competitive alternative to AltroCrete when budgets demand.

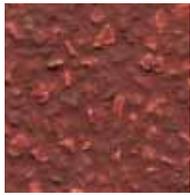
Typical applications:

- food and drink
- pharmaceutical/chemical industries

Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.

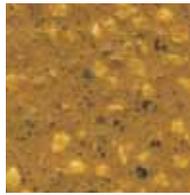


AltroCrete PU Excel colour chart



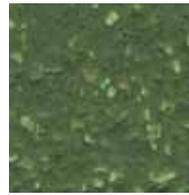
Magma

LRV 12



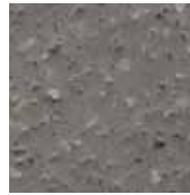
Ochre

LRV 23



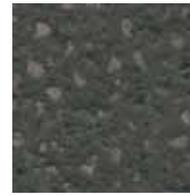
Forest

LRV 12



Zinc

LRV 19



Coal

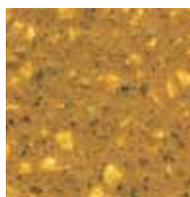
LRV 10

AltroCrete PU Fast Track colour chart - rapid cure



Brick Red

LRV 12



Saffron

LRV 23



Meadow Green

LRV 12



Silver Grey

LRV 19

AltroFlow PUM and AltroGrip PU colour chart



Magma

LRV 8



Ochre

LRV 20



Forest

LRV 10



Zinc

LRV 15



Coal

LRV 9



Most polyurethane resin screeds should be considered more functional than decorative. Exposure to ultra violet light sources will cause a cosmetic yellow discolouration. This effect will be most pronounced in pale colours and blue/grey shades. Please be aware of this when placing these products into colour sensitive areas and contact Altro technical services for further information.



FerFA (The Resin Association) do not consider anhydrite, hemi-hydrate and calcium-sulphate screeds to be suitable for overlay with resin floor finishes.

Pale colours may show some cosmetic discolouration on exposure to UV light. Please contact Altro technical services for further information.

Altro resin products provide a tough and practical solution. However, as with most industrial and commercial flooring, in some situations resins may suffer chemical attack or staining. Please contact Altro for further information.

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Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

Codes: LRV = Light Reflectance Value

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Static Dissipative

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A selection resin floor coverings is available, suitable for locations where static build-up must be avoided, increasing safety and minimising damage to sensitive equipment.

Altro static dissipative resin systems provide safe conditions for potentially hazardous or electronically sensitive environments, with all the performance benefits of epoxy resin flooring. These surfaces are often installed over a perimeter ring (or grid) of conductive tape which can be connected to electrical earth, to control the passage of electrostatic charge through an in-built path with resistance of between 5×10^4 and 2×10^6 ohms.

AltroStat SD

FeRFA type 5

A three-pack, solvent-free, flow applied 3mm epoxy resin, for prepared substrates treated with AltroStat primer. AltroStat SD provides a smooth gloss finish, which, if required, will accept AltroSeal UVR-WB to create a matt finish.

AltroQuartz EP SD

FeRFA type 6

A three-pack, solvent-free dissipative 4mm screed, with multi-colour aggregate for the added benefit of a surface texture with slip resistance, also used in conjunction with AltroStat primer.

Typical applications:

- laboratories
- chemical processing
- pharmaceutical
- electronic assembly
- telecommunications
- areas requiring a floor covering with static dissipative properties

Please see product selector on pages 8-9 for full details.
For Technical lay-up drawing see pages 38-39.



samples@altro.com

AltroStat Resin SD colour chart

Cloud LRV 50	Doe LRV 35	Winter Grey LRV 19	Black LRV 0.5	Burnt Chocolate LRV 5	Wine Red LRV 6	Magenta LRV 14
Dawn LRV 42	Flint LRV 28	Wedgewood LRV 20	Sark LRV 10	Indigo LRV 3	Ramone LRV 32	Ruby LRV 8
Gunmetal LRV 23	Norfolk LRV 20	Magic LRV 10	Cyprus LRV 21	Spruce LRV 29	Ranch LRV 16	Tropic LRV 15
Topaz LRV 42	Toast LRV 26	Portland Grey LRV 43	Patina LRV 11	Jade LRV 28		

AltroScreed Quartz EP SD Colour Chart

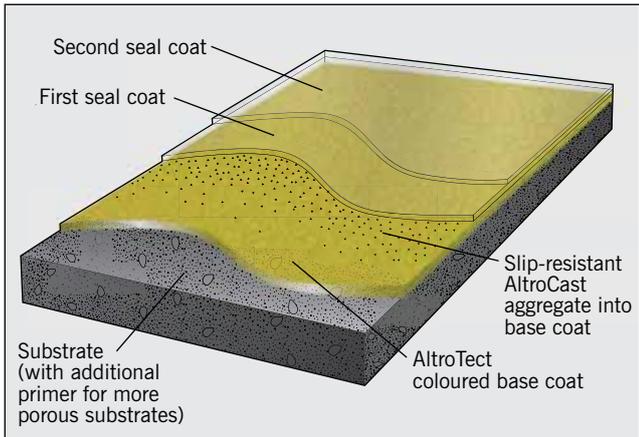
Joule LRV 11	Faraday LRV 8	Coulomb LRV 16

Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

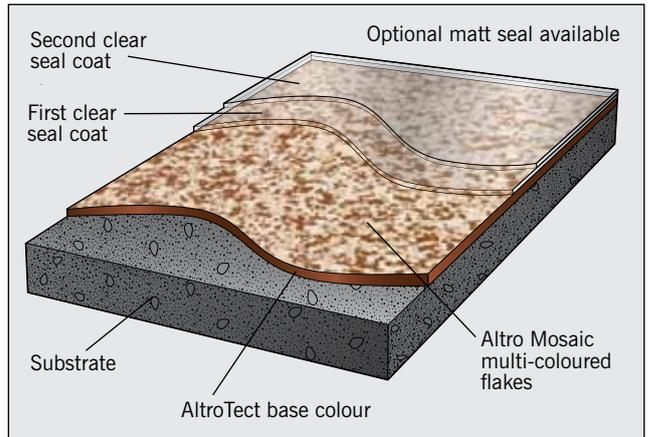
Codes: LRV = Light Reflectance Value, WR = Weldrod, A1M = Mastic

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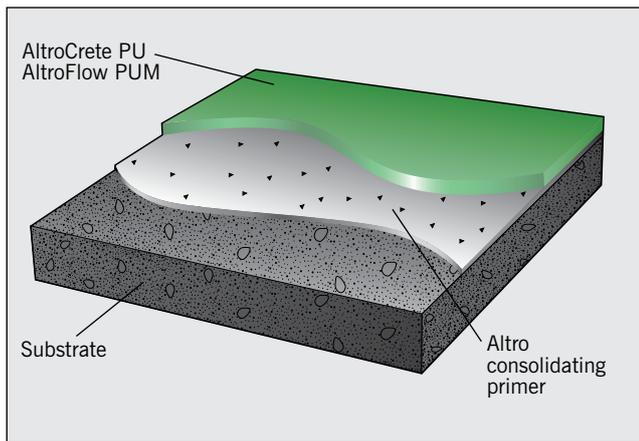
Technical lay-up drawings



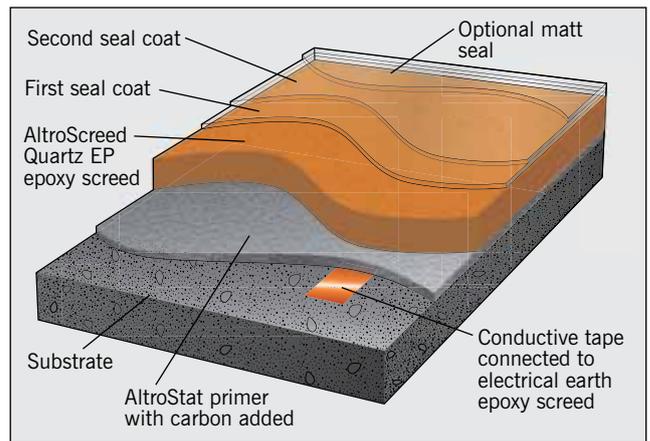
AltroCast™



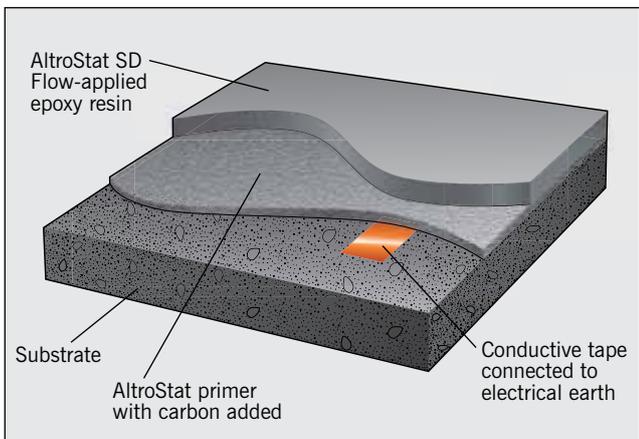
Altro Mosaic™



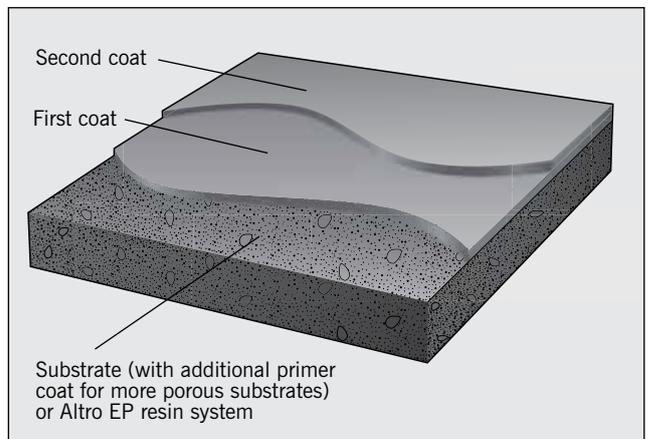
Altro PU System - AltroCrete™ PU Excel / AltroFlow™ PUM / AltroCrete™ PU Fast-Track



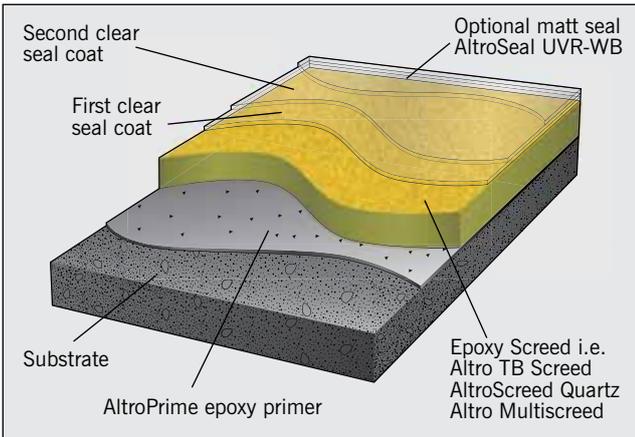
AltroScreed Quartz™ EP SD



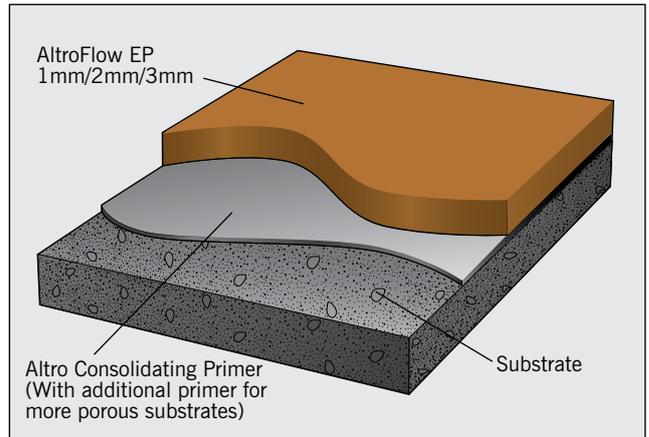
AltroStat™ SD



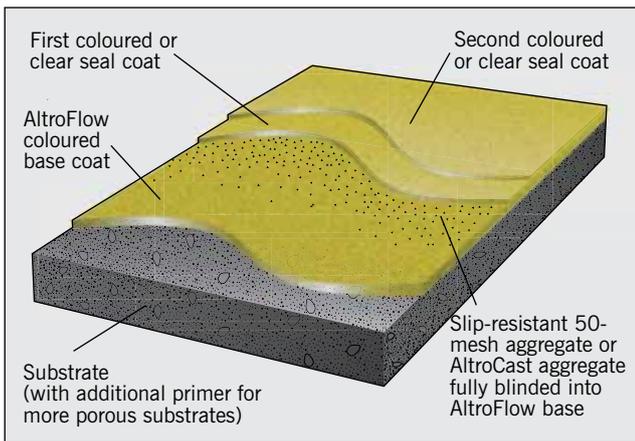
Coatings - AltroSeal™ / AltroCoat™ / AltroShield™ SF / AltroTect™



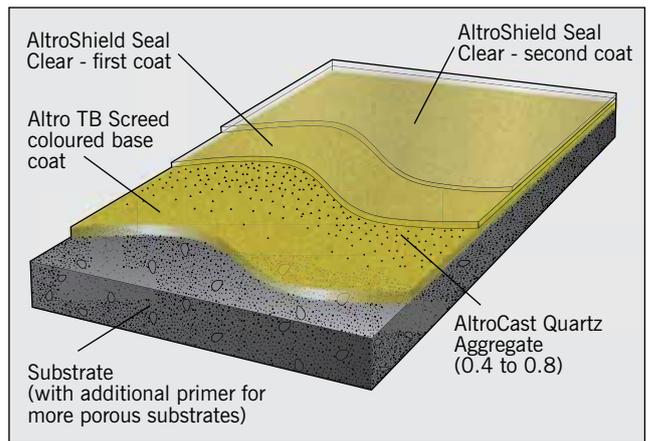
Epoxy Screeds - Altro TB Screed™ / AltroScreed Quartz™ EP / AltroScreed Quartz™ Boutique / Altro Multiscreed™ EP Naturals



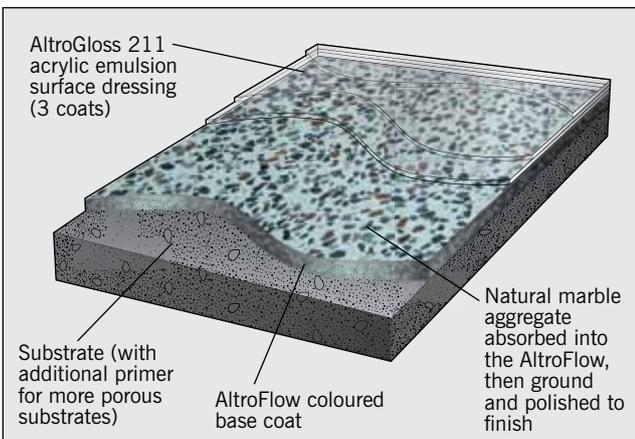
Flow Applied - AltroFlow™ EP



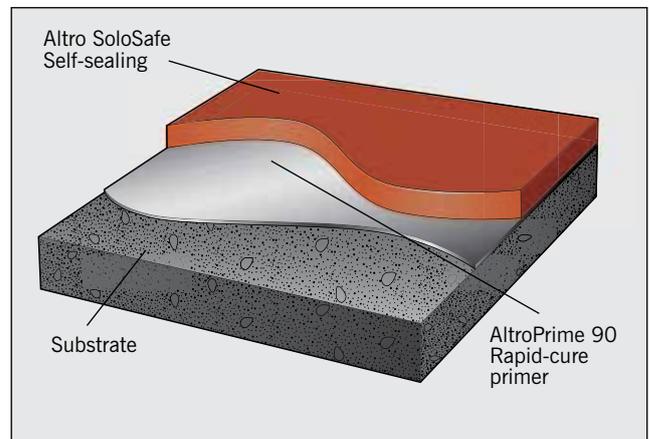
Grip Systems - AltroGrip™ / AltroGrip Quartz™ AltroGrip™ PU - as above but with one coloured seal coat



Altro TB+Cast™



Altro Terrazzolite™



Altro SoloSafe™

Vertical systems and support products

Some environments call for more durable, hygienic or chemically resistant wall finishes. These may range from laboratories to secure/custodial units and from wet-room bathing facilities for healthcare environments to high-use shower facilities for sport or defence establishments. The following range of Altro resin finishes can be applied to walls to provide solutions for many challenging situations, where more commonly used wall surfaces will not provide the required performance.

AltroSeal UVR

A twin-pack, solvent-based polyurethane, chemically and UV resistant polyurethane coating for improved colour stability in light colours, although additional coats may be required over darker substrates. For colour options see AltroSeal UVR colour chart on page 11.

AltroCoat V

A twin-pack epoxy, water miscible, moisture tolerant epoxy resin with low odour/taint. This epoxy coating offers the ability to be applied to damp substrates. A coating of moderate thickness and silk finish, this will provide a durable wall coating, but please note that substrate texture will not be obliterated and additional coats will be required for light colours (Nb white should not be used as a final coat, see note regarding UV discolouration). For colour options see AltroCoat colour chart on page 11.

AltroTect V

A twin-pack, solvent-free, low taint, high-build epoxy coating for greater hiding power and a gloss finish. A matt surface seal may be added if required. (Nb white should not be used as a final coat, see note regarding UV discolouration). For colour options see AltroTect colour chart on page 13.

Altro Mosaic

These decorative multi-layer finishes can be applied to walls and/or floors. Offering two slightly different textures, one a vibrant glossy finish, the other a subtle glazed matt appearance. For colour options see Altro Mosaic colour chart on page 17.

AltroTB Screed

A 3mm thick, trowel applied epoxy screed. This decorative and coveable product can be laid to floors and/or applied to walls for a heavy-duty, easy-clean surface in silk or matt finish. For colour options see Altro TB Screed colour chart on page 21.

Installation of a floor from the base concrete slab to the final wearing surface will often demand products to create cement-based screeds of sufficient strength, suppression and control of moisture within the substrate, patching of eroded substrates and the ability to fill substrate movement joints with a strong, but flexible medium. The products listed below fulfil those associated requirements to allow a comprehensive and detailed specification with single-point material warranties.

AltroProof Solo™

A two-part solvent-free, high-build epoxy resin moisture vapour suppressant (MVS) membrane designed as a one coat system to accommodate all types of floor finishes. Used in place of a standard resins system primer, it will provide a vapour-barrier against levels of residual construction moisture to a maximum of 95% RH.

AltroProof Duo™

A two-component, solvent-free, high-build epoxy resin surface damp-proof membrane, isolating moisture to provide protection for moisture-sensitive floor finishes. It is applied as a two coat system, in place of a standard resin primer to provide protection against substrate moisture to a maximum of 97% RH.

AltroExpand™

A twin-pack, elastomeric epoxy resin jointing compound designed as a pourable filling for movement joints within the substrate, AltroExpand provides a degree of flexibility to accommodate compression, whilst offering support to the arris of the joint when subjected to heavy wheeled traffic. A knife-applied grade is available for vertical use.

AltroPol™

A styrene-butadiene co-polymer liquid-additive which displaces an amount of gauging water, enhancing the strength and performance of cementitious screeds. It should be added at the time of mixing, prior to placement of the screed.

AltroPatch UFC™

A two-part, rapid curing epoxy repair mortar, used to make good, fill voids or adjust surface levels, prior to the installation of a resin surface finish.



Please see product selector on pages 8-9 for full details.



Product information: Tel: +44 1462 707 600 E-mail: enquiries@altro.com

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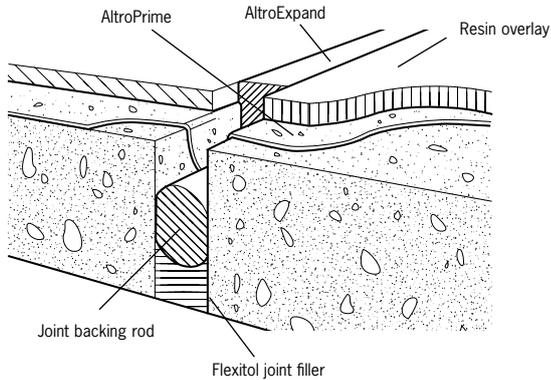
 St Ita's Hospital

Perimeters, joints and cove

Finishing details are often critical to customer satisfaction or the success of an installation, so these should be agreed and communicated accurately before installation commences. Your Altro Technical Consultant can help to ensure that detailing is appropriate to the area and service required of the finished floor. Several commonly used techniques are detailed here with drawings; further drawings may be available via www.altroresins.co.uk.

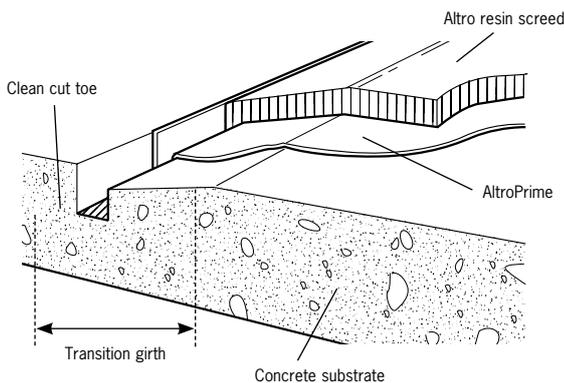
Altro resin flooring finish at floor expansion joints

All floor joints (movement) should be transferred up through the Altro resin toppings where these exceed 500 microns. Arrises should be in a state of good repair before receiving the Altro resin finish (AltroPatch UFC should be used to correct defective arrises). AltroExpand should be installed into the clean cut joint detail after priming the vertical faces with AltroPrime. Joint width and depth should be agreed before installation (generic guide in depth = 1.5 x width).



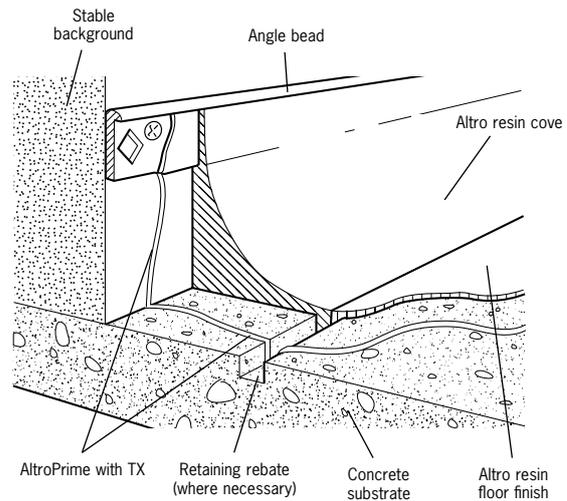
Altro resin flooring transition detail

Where newly installed Altro resin flooring is required to match surrounding levels a transition detail needs to be incorporated. The thickness of the Altro resin screed system being installed will depend on how much the substrate requires to be reduced in level (i.e. a 9mm AltroCrete PU system will require 9mm reduction of substrate). The substrate should be reduced in level using scabblers or diamond grinders (fitted with dust recovery) down to a clean cut toe. The angle of the transition (transition girth) depends upon types of trafficking (i.e. shallow for manual load handling) but must not be too steep to create a trip hazard.



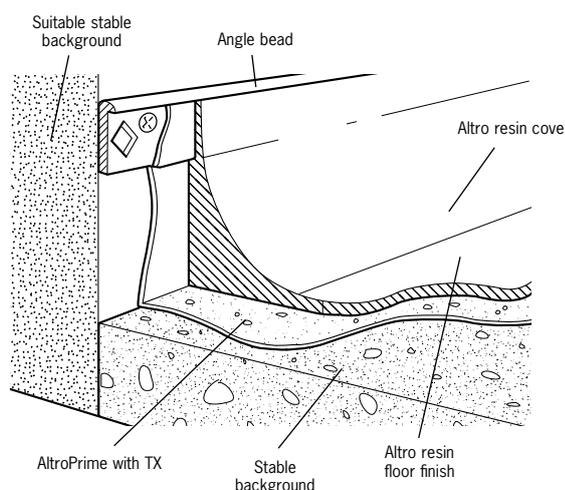
In situ cove detail with retaining floor rebate

In situ cove detail can be produced using standard flooring products in conjunction with Altro TX. The suitability of the vertical background and priming procedure is vital to the successful installation of the Altro resin in situ cove detail. With the following backgrounds being acceptable: brickwork (stable); blockwork; cement/polymer render; WBP plywood (suitably supported). (N.B. Seek Altro technical advice for wall structures comprising: plasterboard/gypsum/plaster/powder coated products/stainless steel). The top edge of the cove detail should incorporate an angle bead as shown.



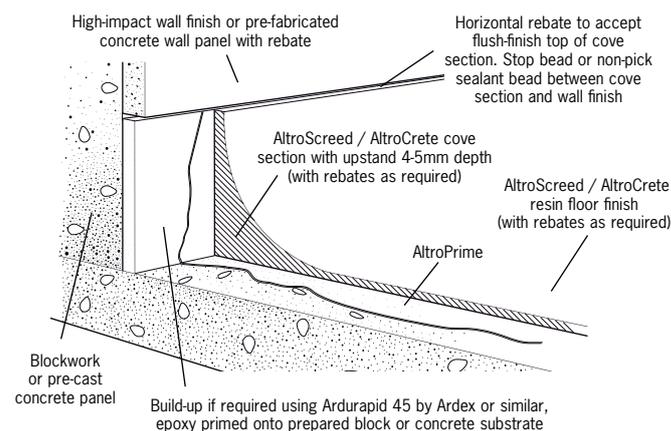
In situ cove detail without retaining floor rebate

In situ cove detail can be produced using standard flooring products in conjunction with Altro TX. The suitability of the vertical background and priming procedure is vital to the successful installation of the Altro resin in situ cove detail, with the following backgrounds being acceptable: brickwork (stable); blockwork; cement/polymer render; WBP plywood (suitably supported). (N.B. Seek Altro technical advice for wall structures comprising: plaster-board/gypsum plaster/powder coated products/stainless steel). The top edge of the cove detail should incorporate an Image Trim or Dural bird beak or angle bead as shown.



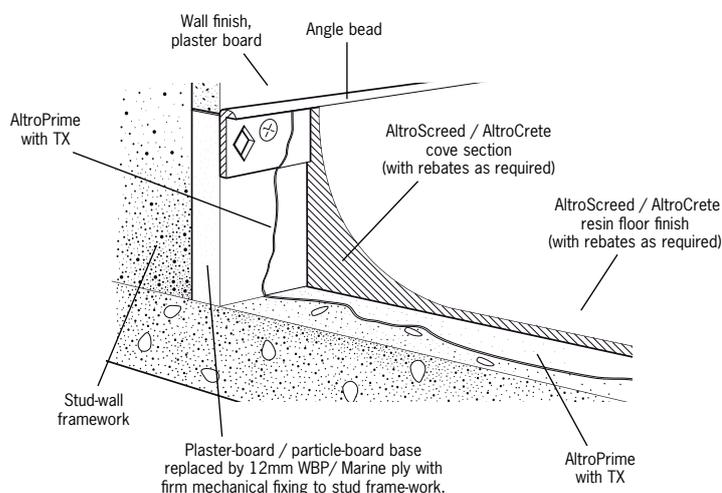
In situ cove detail to walls with rebate

Some pre-cast construction provides a rebate at the base of the wall to receive a resin covered upstand. Such rebates may exceed the depth required, the resin covered up-stand is normally no more than 5mm in thickness. A rapid-cure mortar should be used to re-build to the required depth. The mortar should be epoxy-bonded to the substrate and should offer in the region of 25N/mm² compressive strength. The infill is then primed to receive the cove in the normal manner.



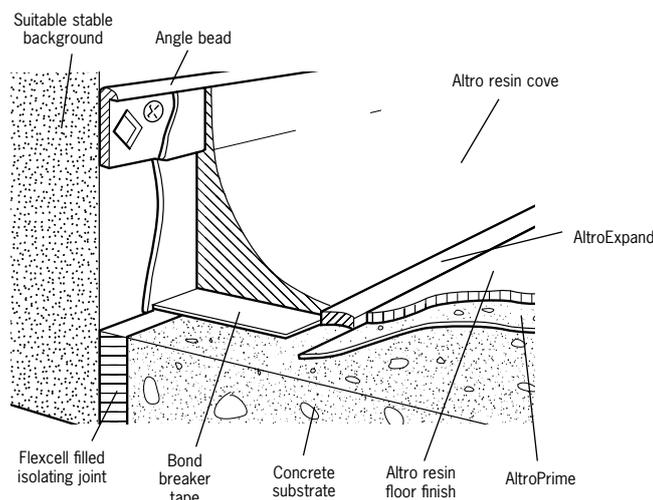
In situ cove detail to plaster-board walls

Plaster-board or particle-board does not offer sufficient support for a resin covered upstand to resist impact in service. The base of the plaster-board should be replaced by 12mm WBP/marine plywood, with firm mechanical fixings to remove any flex. The ply is then primed to receive the cove in the normal manner.



Altro resin flooring with in situ cove and isolated slab to wall

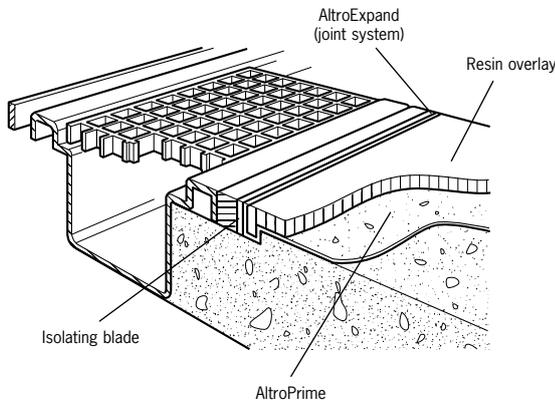
Where the floor slab is isolated from the wall detail by a joint filled with a proprietary flexible material, e.g. Flexcell, movement must be accommodated by the inclusion of bond breaker tape over the expansion joint as shown and isolating the toe of the cove to the floor. The toe of the cove must be joined to the floor system with the flexible joint material AltroExpand, so allowing all movement of the floor to be absorbed through the joint without compromising the cove detail. The vertical background is vital to the successful installation of the Altro resin in situ cove detail, with the following being acceptable: brickwork (stable); blockwork; cement/polymer render; WBP plywood (suitably supported). (N.B. Seek Altro technical advice for wall structures comprising: plasterboard/gypsum plaster/powder coated products/stainless steel). The top edge of the cove detail should incorporate a birds beak or angle bead as shown.



Perimeters, drains and cove

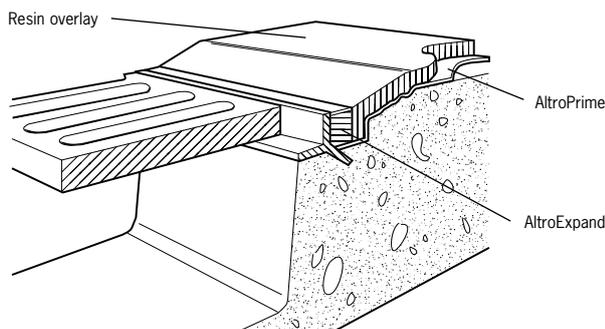
Detail to stainless steel drainage

The Altro resin flooring detail to stainless steel drainage must adhere to the following principles. Firstly, the stainless drainage system design must be compatible with Altro resin finishes. The body of the drain should incorporate an inverted 'U' section to create a stable vertical seal face for the AltroExpand joint sealant (as shown). Raw edge and clamping type drainage systems are not acceptable. The Altro resin topping must incorporate a reinforcing toe at the junction of the AltroExpand. This joint void can either be formed when laying the Altro resin system, or cut after installation and cure using a diamond cutter (with dust recovery). Contact surfaces (Altro resin and stainless steel) should be primed with AltroPrime and AltroExpand to tack cure. AltroExpand should be installed after careful masking ensuring correct levels exist between the Altro resin and drainage to eliminate ponding.



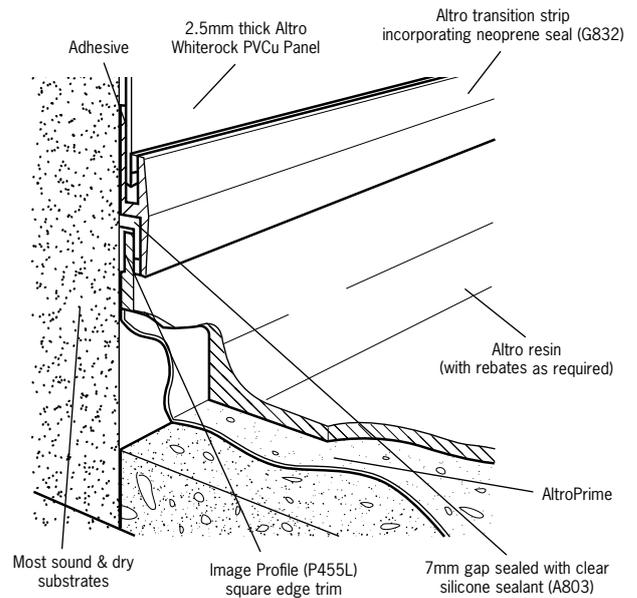
Altro resin flooring finished to poured trench drainage

The Altro resin flooring detail to a poured trench drainage channel must adopt the following principles. Firstly the drainage system design must incorporate a retaining edge with lip as shown and be compatible with Altro resin finishes. The retaining edge must also incorporate a stable vertical seal face for the AltroExpand joint sealant (as shown). Raw edge and clamping type drainage systems are not acceptable. Contact surfaces (Altro resin and stainless steel) should be primed with AltroPrime and AltroExpand to tack cure. AltroExpand should be installed after careful masking; ensure correct levels between the Altro resin and drainage exist to eliminate ponding.



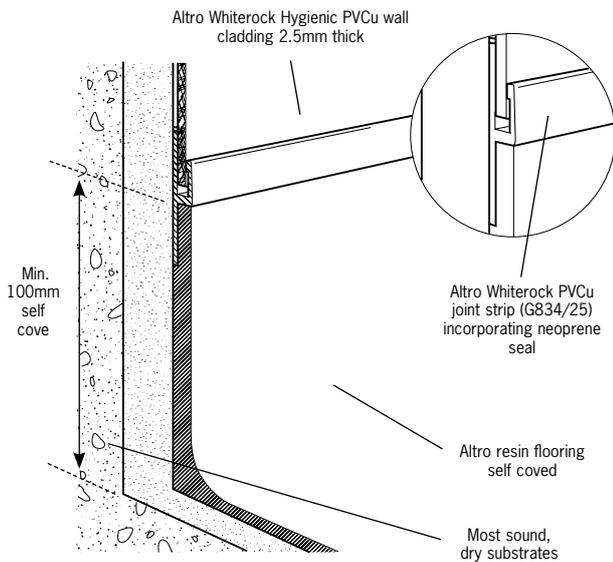
With in situ cove to Altro Whiterock hygienic PVCu wall cladding

Altro resin flooring applied first (to thickness recommended for type/application) and self covered up to a minimum of 100mm to front edge of Image Profile (P45SL) (by Image Trim (UK) Ltd), Altro Whiterock hygienic PVCu wall cladding 2.5mm thick installed over most sound, dry substrates to maintain 7mm gap above top edge of resin, install Altro transition strip (G832) incorporating neoprene seal with 5mm gap between wall sheet bottom edge and centre web of strip seal over resin edge with clear silicone sealant (A803).



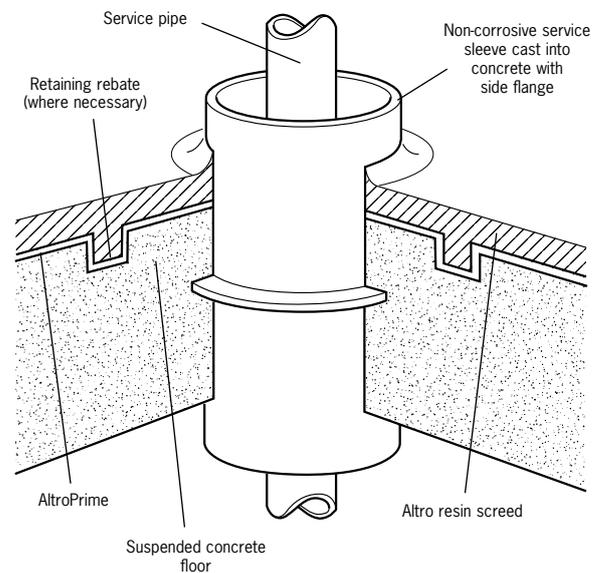
In situ cove and Altro Whiterock hygienic PVCu wall cladding overlap transition

Altro Whiterock hygienic PVCu wall cladding 2.5mm thick installed over most sound, dry substrates. Covens can be terminated into Altro Whiterock PVCu joint strip (G834/25) which includes a neoprene seal with minimum 5mm expansion gap. Install Altro resin flooring (to thickness recommended for type/application) and self covered up to lower front edge of joint transition strip.



Altro resin flooring finished up to service duct

This specification is a recognised standard for isolating thick section Altro resin flooring (1mm-9mm) to eliminate damage to the floor system by thermal change and/or to provide a secure tank effect. The surface of the duct should be suitably prepared and primed with AltroPrime before the application of the final finish. Altro resin can either straight abut the service duct when using the AltroFlow range or a pencil fillet (as shown) can be created when using Altro resin screeds. Altro PU thick section systems require a retaining rebate around the service sleeve.



Exercising due care

Site conditions

Resin surfaces are site-finished and adverse conditions may have a detrimental effect on the quality of the completed installation, irrespective of the applicator's skill. The building should be weather-tight, sources of moisture, air-borne dust or debris should be removed or effectively isolated. The substrate temperature will usually be below that of the air and colder site conditions may reduce the workability of the resin and extend curing times, possibly beyond the guidance given in these notes. Portable gas-fired heaters often generate moisture in the air, which can lead to discolouration of the resin surface (other forms of portable heat may be used). The avoidance of other trades and the provision of ample light will assist the contractor to provide a finish of good quality.

Post-installation care

Resin products undergo an initial cure, first to accept foot traffic usually after 24 hours, then after approximately 48 hours to accept light to moderate wheeled traffic. However the resin finish often requires more time to acquire resistance to spillage, often up to seven days post-installation, but all of these times are dependant on temperature. Altro's Rapicure range has been developed to reduce cure times, please consult Altro for guidance.

On-site protection can cause discolouration if it is placed prematurely or if an incorrect protection material is used. Polyethylene sheet, linseed-treated hardboard and printed or dyed cardboard should not be used in close proximity to the resin finish. Altro suggest the use of Correx by Cordek Ltd, placed no sooner than 48 hours after installation (at 20°C). In the event of moisture ingress, the protection should be removed, the floor dried thoroughly and dry protection used in place.

Health, safety and hygiene

Flooring, walling and ceilings are an essential part of the fixtures for most businesses, and are subject to the same regulations which affect other parts of the business.

An employer's responsibilities include the assessment and control of risk, taking action through training to safeguard health and safety as part of employees' duties. It falls to the flooring and walling supplier, when consulted, to ensure that the floor or wall surface and any coating or treatment are inherently safe and fit for the stated purpose for which they are purchased, and to provide information to users and purchasers on its safe use. This can only be achieved by full disclosure of all relevant information at the disposal of the specifier and/or end-user. The proposals submitted by the manufacturer or installing contractor may not be acceptable to the end-user or specifier, in which case it is considered that they have the greatest detailed knowledge of the service environment.

For flooring, the particular element of risk is detailed within Health and Safety Executive campaigns to minimise 'slips and trips', which are the single most common cause of injuries at work.

Slip resistance, slip control and cleaning

Slipping is largely a factor of the contamination of a floor by spillage. Where possible the contamination should be eliminated or prevented from reaching the floor surface and, if unavoidable, the effect of the contamination should be limited through cleaning and design (e.g. falls and drainage).

Smooth floors that are laid in areas which are subject to spillage may well contravene the Workplace (Health, Safety and Welfare) Regulations 1992.

Specification of floors in these areas must take account of all likely conditions (including change of use) and be selected accordingly.

A textured floor surface is an effective method of providing slip resistance and can discharge the duty of an employer to provide safe working conditions. It must be noted that slip resistance is not a substitute for keeping the floor free of contamination as far as possible, or providing effective maintenance and cleaning. Call 01462 707600 for a copy of 'Slips and Trips: the essential modern guide to prevention'.



Maintenance of flooring

Flooring should be subject to an effective schedule of maintenance, the most important part of which must include regular cleaning to a routine dictated by the usage patterns and traffic (safety, hygiene and appearance). Additionally the floor should be inspected for hazards caused by conditions of use; this could form part of the cleaning schedule for a suitably responsible operative, or as part of a routine building inspection. Unforeseen impact, abrasion, point-loading and chemical attack are potential causes of damage. Routine inspection may identify such issues before safety or hygiene are compromised. Full consultation, at the time of specification will help to minimise the risk of under-performance.

Static dissipative flooring

Build-up of electrostatic charge is unwelcome in many situations and dangerous in some. It can impede electronic equipment in general use and cause damage to instruments in hospitals, laboratories or electronic assembly areas. In more sensitive environments such as those handling fine powders, uncontrolled discharge may cause discomfort for operatives and may even lead to ignition or explosion, especially in the proximity of flammable gases, vapours or pyrotechnics. Altro offer static-control resin flooring, indicated by the suffix SD (Static Dissipative).

When cleaned in-service, surface dressings and polishes should not be applied to static-control flooring unless the effect has been established and checked beforehand.

Handling and health risks

The chemicals and solvents involved in Altro resin systems may cause sensitisation and allergic reactions to a very small percentage of users. Altro provide relevant safety data sheets, on request, to accompany all products.

Interior finishes in food and drink processing

Good hygiene practice in food and drink processing environments will be supported by effective hygienic interior finishes. The durability of those systems not only ensures effective long-term performance but also offers the best return on investment.

Assessment and control of critical hazards to hygiene can be assisted by good initial specification or design. Altro's technical consultants can offer experience of flooring, walling and ceiling installations in similar environments. This knowledge will help to provide a proposal which allows the interior fabric of your building to remain in good repair, permit adequate cleaning and disinfection, whilst supporting the primary function of your business.

Although not as critical as food contact surfaces, under-performing floors can have a significantly detrimental effect on the ability to function in a food or drink processing area. The removal or replacement of floor finishes in particular can present significant disruption and interruption to essential output.

To increase the effectiveness of systematic cleaning, Altro have developed their range of finishes to offer negligible absorption of wash-down water (or spillages) to shed surface contamination when cleaned, achieving industry-leading results which outperform most alternative materials.

Warranties and life expectancy

Altro product warranties

Where a specification is considered by Altro to be fit for purpose, Altro offer extended product warranties as part of the Altro Assurance of Customer Satisfaction. This assures customers that, provided a suitable product has been installed correctly and the conditions of the warranty have been observed, Altro will provide replacement material free of charge. Altro will provide written endorsement for suitable specifications on request.

Life expectancy, traffic and usage

In addition, through its long experience in flooring and walling products, Altro is able to give guidance on a product's life expectancy to the specifier/user. This means that, given average and reasonable traffic and usage, the product can be expected to perform satisfactorily for the number of years indicated.

It should be noted that life expectancy is only an informal guideline figure, and cannot be related to specific application conditions. It is based on the correct choice of product for an application, correct installation by a competent contractor on, properly prepared substrate, and an appropriate cleaning and maintenance regime.

Altrosan™ integral bacteriostat



Epoxy resins naturally suppress bacterial growth, but for added peace of mind Altro's unique Altrosan integral bacteriostat is available free-of-charge in Altro resin systems. Bacteriostats are intended to help inhibit the growth of bacteria on the surface. Altro's PU range has been shown to have zero water-absorption and remarkable decontamination when cleaned, these properties all combine to assist the maintenance of a hygienic environment throughout the life of your product.

Colour and colour fastness

While every attempt is made to use colours that maintain their original intensity shade over the life of the product, actual location conditions will influence this to a greater or lesser extent. Variations can occur from causes such as: strong sunlight, wear, dirt and maintenance, chemicals and UV sources. In addition, perceived changes in colour can occur due to changes in surrounding colourways, decorative effects, etc. The colour temperature of different light sources (i.e. lamps such as tungsten 'bulbs', fluorescent 'tubes' and halogen spots) may also have a marked effect on different colours.

It should also be noted, that, while every attempt is made to keep colour constant, colour of samples may differ from production batches and different batches of the same product colour may show variations.

Post-installation care

Cleaning Guidance For Smooth Surface Altro Resin Flooring

(AltroFlow EP & Altro Terrazzolite EP, where a gloss finish is to be retained)

Note; A smooth, gloss floor surface offers limited slip resistance. Entrances should be fitted with matting to remove moisture to aid safety and to remove dust/debris to protect the gloss finish. In common with other high-gloss finishes a resin floor finish may scratch and will require additional polish or surface dressings for ongoing protection. Mop cleaning may not be sufficient.

Following installation

The resin floor finish should be protected by the application of three coats of metalised acrylic emulsion polish, such as AltroGloss 211. The installing resin contractor may offer this service.

Routine maintenance

Sweep or vacuum the floor to remove dust and debris.

If the floor is to be washed; dilute a neutral detergent, by 1:40 in clean water. Liberally apply the water and detergent solution to the floor, using a slow-speed (<400rpm) scrubbing machine and white soft-medium pad or a soft-bristle brush.

Allow the detergent solution to remain on the floor for several minutes, to break down deposits, but not sufficiently long to allow it to evaporate. (Exercise due caution on smooth surfaces when wet).

Remove the detergent solution by wet vacuum recovery and follow this with a fresh water rinse, also removed by vacuum.

It is important that all detergent residue is removed from the surface of the floor, because detergent can become slippery, which affects safety, or may remain sticky which attracts and holds more dirt.

If the acrylic emulsion surface dressing has been removed, re-instate this protective measure as above.

When the floor is not to be washed; regularly spray burnish with a cleaner-maintainer, such as Altro 48W, using a high speed buffing machine to maintain gloss and disguise micro-scratching.

The acrylic emulsion polish should be removed at intervals which will become apparent and depend upon usage and maintenance. Use an alkaline detergent such as Altro 44 diluted by part in 20 with water, and lightly abrade the floor surface with black coloured stripping pads on a slow-speed <400rpm cleaning machine. Re-apply the acrylic-emulsion dressing and continue as above.

Cleaning Guidance For a textured Altro resin floor finish.

(AltroGrip, AltroCast, Altro TB Screed, Altro TB + Cast, Altro Mosaic, Altro SoloSafe, Altro Multiscreed, Altroscreed Quartz)

The frequency and degree of cleaning required will be determined by several factors:

- the colour of the floor
- the surface texture of the floor
- spillages or contamination within the area
- the frequency and type of traffic crossing the floor
- the efficiency of entrance matting
- the nature of the adjacent surfaces (dirt carried onto the floor)

Typical cleaning instructions are detailed below

The resin flooring should be swept clear of debris, then thoroughly cleaned using Altro 44 detergent (or similar) diluted at between 1:20 and 1:40 with clean water and agitated with a hand-held deck scrubber or mechanical scrubbing machine (using brushes).

The detergent solution should remain on the floor for several minutes to allow it to break-down contamination, it should be agitated by scrubbing during this time, and then should be removed by wet-vacuum pick-up.

Immediately following the initial scrubbing, the floor should be rinsed and scrubbed with the fresh clean water (no detergent). When this has been completed the water should again be removed by wet-vacuum pick-up. Allow the floor to dry. Any residues of detergent not recovered will form a tacky surface layer which will attract and hold more dirt.

In some circumstances the customer may decide to use a high solids acrylic-emulsion surface dressing as a barrier layer to ease cleaning. It should be noted that this will also reduce the surface texture and therefore the slip-resistance of the floor finish. In these cases, three coats of the acrylic emulsion dressing are often mop-applied before the final coat is buffed to a gloss finish.

When surface dressings are applied, the control of slip resistance rests with those who determine cleaning regime and choose the application of surface dressings.

Effective entrance matting will usually reduce the need for cleaning.

Although resin flooring is very durable and resists many chemicals, some cleaning agents may shorten their service life. Given the relevant data sheets Altro will offer advice and guidance on the suitability of cleaning materials throughout the life of your flooring.

Cleaning Guidance For 2-6mm Heavy Duty AltroCrete PU/AltroFlow PUM Resin Flooring

(Food & Drink Production, Wash-down bays, Engineering etc)

Note; A textured floor surface may have been selected to offer safety in wet areas. The texture of a slip-resistant surface will require mechanised cleaning or the use of a long-handled scrubbing brush, mop cleaning will not be effective.

The frequency and degree of cleaning required will be determined by several factors:

- the colour of the floor
- the surface texture of the floor
- spillages or contamination within the area
- the frequency and type of traffic crossing the floor
- the efficiency of entrance matting
- the nature of the adjacent surfaces (dirt carried onto the floor)

Sweep or vacuum the floor if required to remove debris.

Dilute an alkaline detergent such as Altro 44 or similar, by 1:40 in clean water (for normal cleaning) or by 1:20 for infrequent heavy cleaning. If required, clean wall surfaces and equipment before cleaning the floor.

Warm water will offer improved cleaning but the water temperature should not exceed 60°C.

Liberaly apply the water and detergent solution to the floor, scrubbing with a stiff-bristle deck scrubber or slow-speed (<400rpm) scrubbing machine. Take care not to splash contaminated water onto adjacent clean surfaces.

Be sure to scrub all internal corners of the perimeter coves, around columns etc., where residues may accumulate.

If possible, allow the detergent solution to remain on the floor for several minutes, to break down deposits, but not sufficiently long to allow it to evaporate.

Remove the solution by wet vacuum recovery and follow this with a fresh water rinse, or rinse the solution into drains if permissible.

It is important that all detergent residue is removed from the textured surface of the floor, by thorough rinsing, because detergent can become slippery which affects safety, or sticky which attracts and holds more dirt.

Note - Steam cleaners and/or hot pressure cleaners should not be used on the floor or walls without prior consultation. A cold/ambient pressure washer may be used if required, but the pressure should not exceed 1400psi. Pressure lances may move deposits from the floor to wall surfaces.

Although resin flooring is very durable and resists many chemicals, some cleaning agents may shorten their service life. Given the relevant data sheets Altro will offer advice and guidance on the suitability of cleaning materials throughout the life of your flooring.

Cleaning Guidance For 8-9mm Heavy Duty AltroCrete PU Resin Flooring

(Food & Drink Production, Wash-down bays, Engineering etc)

Note; A textured floor surface may have been selected to offer safety in wet areas. The texture of a slip-resistant surface will require mechanised cleaning or the use of a long-handled scrubbing brush, mop cleaning will not be effective.

The frequency and degree of cleaning required will be determined by several factors:

- the colour of the floor
- the surface texture of the floor
- spillages or contamination within the area
- the frequency and type of traffic crossing the floor
- the efficiency of entrance matting
- the nature of the adjacent surfaces (dirt carried onto the floor).

Sweep or vacuum the floor if required to remove debris.

Dilute an alkaline detergent such as Altro 44 or similar, by 1:40 in clean water (for normal cleaning) or by 1:20 for infrequent heavy cleaning. If required, clean wall surfaces and equipment before cleaning the floor.

Liberaly apply the water and detergent solution to the floor, scrubbing with a stiff-bristle deck scrubber or slow-speed (<400rpm) scrubbing machine. Take care not to splash contaminated water onto adjacent clean surfaces.

Be sure to scrub all internal corners of the perimeter coves, around columns etc., where residues may accumulate.

If possible, allow the detergent solution to remain on the floor for several minutes, to break down deposits, but not sufficiently long to allow it to evaporate.

Remove the solution by wet vacuum recovery and follow this with a fresh water rinse, or rinse the solution into drains if permissible.

It is important that all detergent residue is removed from the textured surface of the floor, by thorough rinsing, because detergent can become slippery which affects safety, or sticky which attracts and holds more dirt.

Note - Steam cleaners and/or hot pressure cleaning lances should not be left switched on when laid on the floor surface.

A cold/ambient pressure washer may be used if required, but the pressure should not exceed 1400psi. Pressure lances may move deposits from the floor to wall surfaces.

Although resin flooring is very durable and resists many chemicals, some cleaning agents may shorten their service life. Given the relevant data sheets Altro will offer advice and guidance on the suitability of cleaning materials throughout the life of your flooring.

Application guide

Selection Criteria	AltroSeal UVR	AltroSeal UVR-WB	AltroCoat	AltroShield SF	AltroTect	AltroCast	Altro Mosaic	AltroFlow EP	Altro TB Screed	Altro TB Rapicure
Food & Drink										
Production - Dry										
Production - Wet										
Packing Areas	•			•	•					
Chemical Storage	•									
Abattoirs/Fish/Meat Processing										
Pharmaceutical Industry										
Production - Dry					•			•		
Production - Wet										
Bunded Chemical Storage	•									
Laboratories / Clean Rooms	•				•			•	•	
Packing Areas			•	•	•			•		
General Industry										
Metal Fabrication								•		
Warehousing			•	•	•			•		
Electronics & Static Control Environment										
Goods & Storage			•	•	•			•		
Education										
Craft / Design / Laboratories	•									
PE Changing Area										
Communal Areas/Walkways							•		•	
Defence										
Motor Vehicle Garage & Workshops				•	•					
Aircraft Servicing	•			•	•			•		

Typical applications are shown above. These do not represent an exclusive list. For your exact project requirements, please consult Altro directly.

AltroScreed Quartz EP	Altro SoloSafe	Altro Multiscreed EP Natural	Altro Terrazzolite EP	AltroGrip EP / PU	AltroGrip Quartz EP	Altro TB + Cast	AltroFlow PUM	AltroCrete PU	AltroStat SD	AltroScreed Quartz EP SD
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Application guide

Selection Criteria	AltroSeal UVR	AltroSeal UVR-WB	AltroCoat	AltroShield SF	AltroTect	AltroCast	Altro Mosaic	AltroFlow EP	Altro TB Screed	Altro TB Rapicure
Emergency Services & Law Enforcement										
Custodial / Containment Accomodation										•
Motor Vehicle Garage & Workshops			•	•	•					
Health Sector										
Mortuary										
Laboratories / Clean Rooms	•							•		
HSDU Hospital Sterilisation & Decontamination Units	•							•		
Retail										
Front of House								•		
Goods & Storage				•	•					
Back of House				•	•			•		
Leisure & Hospitality										
Sports Changing Area						•				
Bar Servery & Cellar						•				
Restaurants / Dining									•	
Common / General Areas										
Offices									•	
Circulation Areas / Corridors							•		•	
Plant Room				•	•					
Kitchens / Serveries										
Showers / WC facilities						•				
Changing Rooms - Wet										
Changing Rooms - Dry									•	
Reception Areas									•	
Stairs									•	
Goods & Storage				•	•			•		
Restaurants / Dining									•	

Typical applications are shown above. These do not represent an exclusive list. For your exact project requirements, please consult Altro directly.

Altro safety flooring and Altro Whiterock wall cladding

Altro are the inventors of safety flooring. The unique construction of Altro's slip-resistant, hygienic flooring provides an impermeable, sheet vinyl safety floor that will perform and look good even after years of hard service. Safety flooring is of particular value in areas where the combination of safety, hygiene and durability is vital, such as hospitals, care homes and in the food and catering industries.

Why Altro™ safety flooring

Altro slip-resistant safety flooring is a modern solution, meeting the highest standards of safety and hygiene.

- Slip-resistant, even when wet, throughout the lifetime of the floor
- Impervious surface, grout-free
- Coves to wall joints for rounded corners
- Contains Altrosan™ integral bacteriostat to combat bacterial growth
- Incorporates Altro Easyclean™ Technology for improved cleanability
- Resilient surface, comfortable underfoot, contributes to reduced ambient noise levels
- Homogeneous and heterogeneous options available in high quality PVC, which have aggregates throughout the wear layer of the floor, to guarantee long-lasting performance



Altro Whiterock™, the perfect partner

Altro's Whiterock PVC wall cladding systems are durable, hygienic coverings for internal walls.

Altro Whiterock wall cladding can be seamlessly joined leaving dirt and water nowhere to hide. Incorporating integral Altrosan bacteriostat for extra hygiene, Altro Whiterock is the perfect complement to Altro resins and/or Altro safety flooring in bathrooms, shower areas, washrooms and kitchen areas.

A complete hygienic system

- Fully bonded
- Totally sealed
- Easy to clean
- Tested and proven

Bligh Junior School
Solosafe™

For areas such as toilets we needed a floor that was particularly hard-wearing and durable and Altro SoloSafe™ certainly fits the bill. The floor looks absolutely fantastic and has provided a much better environment for the children, in both looks and hygiene, and we are all thrilled with the results

Sally Judge, Bursar at Bligh Junior School

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Altro, the future is safer with altro, AltroSeal, AltroCoat, AltroShield SF, AltroTect, AltroCast, Altro Mosaic, AltroFlow, Altro TB Screed, Altro TB Rapicure, AltroScreed Quartz, Altro SoloSafe, Altro Multiscreed EP, Altro Terrazzolite, AltroGrip, AltroGrip Quartz, Altro TB + Cast, AltroFlow, AltroCrete, AltroStat SD, AltroScreed Quartz EP SD, AltroProof Solo, AltroProof Duo, Altro Whiterock, AltroExpand, AltroPol, AltroPatch UFC, Altrosan are all trade marks of Altro Limited.

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TO ASSIST IN TRAINING, SOME CALLS MAY BE RECORDED

RESIN

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Contractor Details

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