

SUBFLOOR PREPARATION SOLUTIONS

- Smoothing Underlayments
- Moisture Protection
- Repair & Finishing Compounds
- Primer
- Adhesive
- Flooring Adhesives

**ULTRA
FLOOR**



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ABOUT US

Instarmac has been manufacturing in the Midlands since 1977. We are a privately owned business offering financial stability and trading security.

Our working culture, engagement techniques and strong employer values have earned 'A Great Place to Work' recognition.

Instarmac supply the flooring market with a comprehensive range of smoothing underlayments, flooring adhesives, moisture protection products, repair and finishing compounds, and ancillaries, including a primer and adhesive.



SERVICES

BELIEF

We are dedicated to providing quality products, our founder Charlie Hudson's philosophy, "Product performance is key, it is this that people remember long after price has been forgotten", drives our organisation.

QUALITY

We maintain an automated manufacturing facility specifically designed for our needs, and which utilises the latest technology ensuring consistent and reliable product production. An ISO approved process of testing in-house and through certified external bodies offers the reassurance of a quality guarantee and secures worldwide recognised product performance.

RESEARCH & DEVELOPMENT

Investing in our research and development laboratory has allowed us to be innovative and continuously explore changing market demands, new emerging technologies, alternative materials and environmental impacts. Our product range evolves to meet your needs without any compromise to its quality.

SERVICE

We are committed to providing service time and time again which exceeds your expectations. Our team of fully trained staff are just a phone call away to provide all the technical and practical support about the products needed to complete a successful subfloor preparation contract. We utilise the latest technology helping to ensure a seamless ordering process, including automatic order confirmations.

DELIVERY

We pride ourselves on offering a second-to-none delivery service, paralleled with a commitment to protecting vulnerable road users. Our privately owned FORS Silver accredited fleet of 37 vehicles is managed and fully tracked in-house.

Getting product to our customers' warehouses or to site is key. By operating a fleet with employed drivers, live tracking technology, text notification software and tail lifts on all vehicles you will experience first-class service, accurate deliveries and reduced damages.

SUPPORT

Our aim is to provide the correct quality products, efficiently without complications every time you place an order. We will always be on hand whenever you need support and are happy to conduct free bespoke training or site visits on your behalf. Marketing materials in the form of collateral and POS are readily available when required.

ENVIRONMENTAL

We continue to implement our comprehensive environmental initiatives as laid out in our ISO 14001 action plan, and often re-evaluate our position with a truly sustainable future in mind for our business and yours.

SMOOTHING UNDERLAYMENTS

Level *it* TWO

High Flow, Two Component Smoothing Underlayment

- Foot traffic in as little as 2.5 hours
- Ready to receive floor coverings after 8 hours
- Use over most common subfloors
- Moisture tolerant
- UFH compatible
- Low odour
- Protein free



Size:
20kg & 4L

Pallet Quantity:
48

Classification:
CT-C25-F5



Level *it* MULTI PRO

Semi-Rapid, Moisture Tolerant Multi-Purpose Smoothing Underlayment

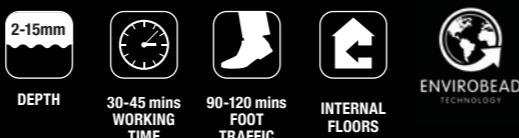
- Specially formulated with 20% Envirobead® technology - a unique recycled material
- Working time: up to 45 minutes
- Foot traffic in as little as 90 minutes
- Ready to receive bonded floor coverings after 4 hours
- Priming not required
- Use over most common subfloors, including old adhesive residues
- Moisture tolerant
- UFH compatible
- Low odour
- Protein free



Size:
20kg & 5L

Pallet Quantity:
48

Classification:
CT-C12-F3



Level *it* HYDRA BOND

Semi-Rapid, Fibre Reinforced, High Performance Smoothing Underlayment

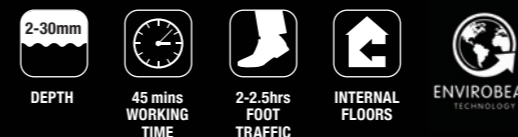
- Specially formulated with Envirobead® technology - a unique recycled material
- Ready to receive bonded floor coverings after 4 hours
- Use over most common subfloors, including old adhesive residues and bitumen
- Moisture tolerant, low odour and protein free
- Designed for underfloor heating
- Extended working time of 45 minutes for optimal usability
- Advanced performance, fibre reinforced water mix, with exceptional flow and ease of application



Size:
20kg

Pallet Quantity:
48

Classification:
CT-C15-F5



Level *it* RENOVATE

Semi-Rapid, Fibre Reinforced Single-Part Smoothing Underlayment

- Foot traffic in as little as 2 hours
- Ready to receive floor coverings after 4 hours
- Use over most strong and stable subfloors
- Fibre reinforced with flexible properties
- Pump or trowel applied
- UFH compatible
- Low odour
- Protein free
- Internal and external use
- Can be used as a wear surface



Size:
20kg

Pallet Quantity:
48

Classification:
CT-C25-F5-AR0.5



Level *it* FLEX FLOW

Semi-Rapid, Fibre Reinforced, Flexible Smoothing Underlayment

- Foot traffic in as little as 120 minutes
- Ready to receive bonded floor coverings after 4 hours
- For use over most common subfloors including flooring grade plywood and rigid steel
- Ready to receive resin finishes after 24 hours
- Fork lift traffic after 24 hours
- Pump or trowel applied
- UFH compatible
- Low odour
- Protein free



Size:
20kg

Pallet Quantity:
48

Classification:
CT-C30-F9-AR0.5



Level *it* SUPER30

Rapid Setting, Rapid Drying Smoothing Underlayment

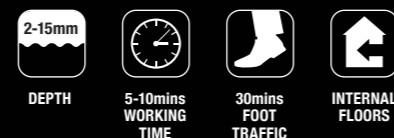
- Foot traffic in as little as 30 minutes
- Ready to receive unbonded floor coverings after 45 minutes and bonded coverings in 90 minutes
- Use over most common subfloors
- UFH compatible
- Low odour
- Protein free



Size:
20kg & 4L

Pallet Quantity:
48

Classification:
CT-C35-F7



Level *it* SUPER FLEX30

Rapid Setting & Rapid Drying Fibre Reinforced, Flexible Smoothing Finishing Compound

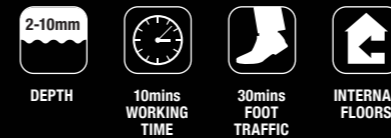
- Foot traffic in as little as 30 minutes
- Ready to receive bonded floor coverings after 1 hour
- Use over most common subfloors including flooring grade plywood and rigid steel
- Ready to receive resin finishes after 24 hours
- Forklift traffic after 24 hours
- Use as a finished wear surface
- UFH compatible
- Low odour
- Protein free



Size:
20kg & 4L

Pallet Quantity:
48

Classification:
CT-C32-F7-AR0.5



Level *it* PRO30

Ammonia Free, High Tolerance Rapid Setting Smoothing Underlayment

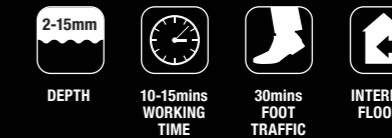
- Foot traffic in as little as 30 minutes
- Ready to receive unbonded floor coverings after 45 minutes and bonded coverings in 90 minutes
- Priming not required
- Can be used over almost any substrate, including old adhesive residues
- Minimal preparation required
- Moisture tolerant
- UFH compatible
- Low odour
- Protein free



Size:
20kg & 4.6L

Pallet Quantity:
48

Classification:
CT-C16-F4

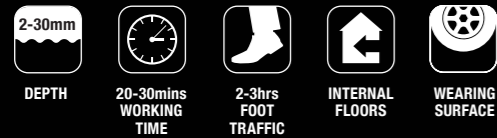


Level *it* SMOOTH

High Performance,
Fine Flow Smoothing
Underlayment

- Foot traffic in as little as 2 hours
- Ready to receive bonded floor coverings after 12 hours
- Superior flow and extremely smooth finish
- Designed for use under sheet vinyl, LVT, linoleum and rubber floor coverings
- Pump or trowel applied
- Ideal for large flooring projects
- UFH compatible
- Low odour
- Protein free
- Can be used as a wear surface

Size:
20kg
Pallet Quantity:
48
Classification:
CT-C35-F6-AR0.5
CE



REPAIR & FINISHING COMPOUNDS

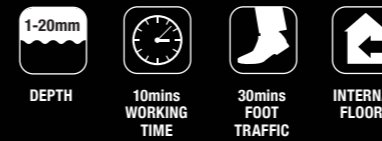
Patch *it*

Rapid Drying
Repair Mortar

- Slump free
- Rapid setting
- Maintains profile
- Smooth to trowel
- Mixing bucket included



Size:
10kg
Pallet Quantity:
56
Classification:
CT-C40-F4
CE



Feather *it*

Rapid Drying
Finishing Compound

- Rapid setting
- Adhesion without a primer
- Compatible with underfloor heating
- Mixing bucket included (when bought in a 5kg bucket)



Size:
5kg Bucket
10kg Bag
Pallet Quantity:
100
Classification:
CT-C7-F3
CE



MOISTURE PROTECTION

DPM *it*

Rapid Curing
Primer Membrane

- Surface DPM
- Two-part epoxy resin system
- Primer for bonded screed applications
- Fast cure system
- Dual chamber packaging



Size:
5kg and 10kg
Pallet Quantity:
5kg: 80 units
10kg: 48 units
Classification:
SR>B2, 0 at 7d
CE



Suppress *it*

Single Component,
Two-Coat Moisture
Vapour Suppressant

- Water based, solvent free formulation
- Removes the need to prime
- Resealable bottle, eliminating waste
- Pigmented orange for coverage control



Size:
5L
Box Quantity:
96 or Boxes of 4
CE



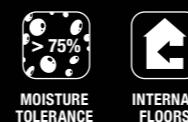
Prime *it* MULTI-SURFACE PRIMER

Primer For Porous &
Non-Porous Substrates

- Enhances adhesion
- Reduces pinholing
- Can be used as curing agent
- Pigmented pink for coverage control



Size:
5L
Pallet Quantity:
96 or Boxes of 4
CE



Prime *it* GRIT

A Ready-To-Use
Gritty Primer

- Fast drying - apply smoothing underlayment or tile adhesive after 15 minutes
- Ready-to-use - No dilution needed
- For use on flooring grade asphalt, bitumen, steel, existing vinyl tiles, ceramic and porcelain
- Designed to create a textured surface to enhance adhesion



Size:
5L
Pallet Quantity:
96 or boxes of 4
CE



ADHESIVES

Stick *it* 500

Carpet & Vinyl Adhesive



- Versatile adhesive for variety of floor coverings
- High initial grab and strong final bond
- Excellent coverage
- Solvent free, superior acrylic dispersion
- Suitable for use with underfloor heating systems

Size:
15 Kg
Pallet Quantity:
44



Stick *it* 543

High Temperature, Pressure Sensitive LVT Adhesive



- Very low emission, emicode EC1+
- High temperature resistance, useful in areas of direct sunlight
- High shear resistance to minimise shrinkage of floorcoverings
- High bond strength when cured, hard set
- Place floorcovering into wet adhesive, no waiting time
- Suitable for use with underfloor heating systems

Size:
10Kg
Pallet Quantity:
44



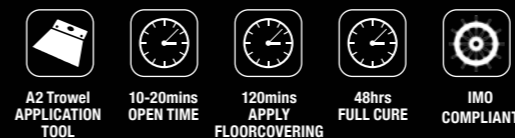
Stick *it* 640

For Vinyl, PVC & Rubber Floorcoverings



- Very low emission, emicode EC1+
- Short open time with extended working time
- High initial wet grab
- Place floorcovering into wet adhesive
- Excellent coverage
- High temperature resistance, suitable for use with underfloor heating systems
- International Maritime Organization (IMO) certified

Size:
12Kg
Pallet Quantity:
44



Stick *it* 542

Slip Resistant, Carpet Tile Tackifier



- Very low emission, emicode EC1+
- Provides a permanent tacky film that prevents tile movement
- Allows easy removal of worn or damaged tiles
- Exceptional slip resistance & non-skid resilience
- Suitable for use with underfloor heating systems

Size:
10 Kg
Pallet Quantity:
60



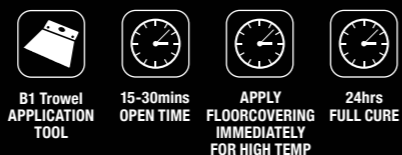
Stick *it* 611

Linoleum Adhesive



- Very low emission, emicode EC1+
- Exceptional high grab & high strength adhesive
- Wet-set adhesive with fast curing properties
- Superior coverage, up to 25% lower adhesive consumption than standard market products
- High temperature resistance, suitable for use with underfloor heating systems

Size:
11 Kg
Pallet Quantity:
44



Grip & Grab *it*

All Purpose Adhesive



- Exceptional grab
- Adheres perfectly on porous and non-porous surfaces
- No need to prime
- Wet and damp conditions

Size:
290ml
Box Quantity:
12



ProFlex SPES

Standard Set Flexible Tile Adhesive

- S1 flexibility for timber floors, swimming pools and underfloor heating systems
- Ideal for use with porcelain, mosaic, natural stone, and glass tiles
- Suitable for large format tiling with an extended open time



Size:
20kg
Pallet Quantity:
54



ProFlex SP

Rapid Set Flexible Tile Adhesive

- S1 flexibility for timber floors, swimming pools and underfloor heating systems
- Ideal for use with porcelain, mosaic, natural stone, and glass tiles
- Rapid set properties for fast track installation



Size:
20kg
Pallet Quantity:
54



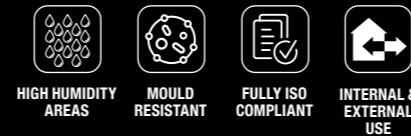
ProSealer

Silicone

- Resistant to UV due to **Colour Shield** technology
- Colour match finishing for tiling installations
- Enhanced bond and elasticity
- Ideal for all kitchen and bathroom applications
- Neutral cure product
- 24 hour set time
- Low odour, no slump formulation



Size:
310ml
Pallet Quantity:
Boxes of 12



ProFlex S2

Fibre Reinforced Flexible Tile Adhesive

- Ultimate S2 flexibility for timber floors including plywood and chipboard overlays, swimming pools and underfloor heating systems
- Formulated with **Fibre Bond** technology for added strength and durability
- Designed for use with all tile types including brick slips, resin backed and quartz



Size:
20kg
Pallet Quantity:
54



ProGrout Flexible

Flexible, Mould Resistant Cementitious Grout

- **Colour Shield** technology for vibrant, durable finishes
- Designed for use with all tile types
- Ideal for wetrooms, swimming pools and underfloor heating systems
- Wash down with minimal effort
- 1-20mm joint thickness
- 30 - 60 minutes pot life
- 12 hours hard set
- Mould resistant



Size:
3kg & 10kg
Pallet Quantity:
Denominations of 4



ProPrimer

Advanced Polymer Primer for Exceptional Bond and Multiple Substrates

- Enhances adhesion and reduces substrate prosperity
- Designed for both porous and non-porous substrates
- Can be used on walls and floors
- Internal and external use



Size:
1L & 5L
Box Quantity:
10 & 4



For more information about UltraTile please visit ultratileadhesives.co.uk



PRODUCT SELECTOR

	SMOOTHING UNDERLAYMENTS							
	Level IT Two	Level IT Multi Pro	Level IT Super30	Level IT Super Flex 30	Level IT Pro30	Level IT Hydra Bond	Level IT Renovate	Level IT Smooth
Product Features	High Flow, Two Component Smoothing Underlayment	Semi-Rapid, Moisture Tolerant, Multi-Purpose Smoothing Underlayment	Rapid Setting, Rapid Drying Smoothing Underlayment	Rapid Setting & Rapid Drying Fibre Reinforced, Flexible Smoothing Finishing Compound	Ammonia Free, High Performance Rapid Setting Smoothing Underlayment	Semi-Rapid, Fibre Reinforced, High Performance Smoothing Underlayment	Semi-rapid, Fibre Reinforced Single-part Smoothing Underlayment	High Performance, Fine Flow Smoothing Underlayment
Working Time at 20°C	20-30 Minutes*	Up to 45 minutes	10 Minutes*	10 Minutes*	10-15 minutes	45 minutes	20-30 Minutes*	20-30 Minutes*
Set Time at 20°C	2.5 Hours*	90 Minutes*	30 Minutes*	30 Minutes*	30 minutes	2-2.5 Hours	2-2.5 Hours*	2-3 Hours*
Ready to Receive Floor Coverings	8 Hours*	4 Hours*	90 Minutes	1 Hour*	90 minutes	4 hours	4 Hours*	12 Hours*
Application Thickness	2-12mm	2-15mm	2-15mm	2-10mm	2-15mm	2-30mm	3-40mm	2-30mm
Protein Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Coverage**	Approx. 6m ² at 2mm	Approx. 5m ² at 3mm	Approx. 6m ² at 2mm	Approx. 6.5m ² at 2mm	Approx 5m ² at 3mm	Approx. 5m ² at 2mm	Approx. 5.0m ² at 3mm	Approx. 6.6m ² at 2mm
Suitable for Pump Action	No	No	No	No	No	Yes	Yes	Yes
Compressive Strength (minimum) 28 Days to BS EN 13892-2	25.0 N/mm ²	12.0 N/mm ²	35.0 N/mm ²	32.45 N/mm ²	16.0N/mm ²	15.0 N/mm ²	25.0 N/mm ²	35.0 N/mm ²
Flexural Strength (minimum) 28 Days to BS EN 13892-2	5.0 N/mm ²	3.0 N/mm ²	7.0 N/mm ²	7.68 N/mm ²	4.0N/mm ²	5.0 N/mm ²	5.0 N/mm ²	6.0 N/mm ²
Pack Size	20kg & 4L	20kg & 5L	20kg & 4L	20kg & 4.0L	20kg & 4.6L	20kg	20kg	20kg
Pallet Quantity	48	48	48	48	48	48	48	48
Tamped or Pan Floated Concrete	✓D	✓D	✓D	✓D	✓D	✓D	✓D	✓D
Sand/Cement Screeds	✓D	✓D	✓D	✓D	✓D	✓D	✓D	✓D
Power Floated Concrete	✓N	✓N	✓N	✓N	✓N	✓N	✓N	✓N
Existing Smoothing Underlayments	✓D	✓D	✗	✗	✓D	✓D	✓D	✗
Tiled - Terrazzo/Granolithic/Ceramic Tiles	✓N	✓N	✗	✗	✓N	✓N	✓N	✗
Anhydrite/Hemihydrate/Gypsum	✓D ☹	✓D ☹	✓D ☹	✓D ☹	✓D ☹	✓D ☹	✓D ☹	✓D ☹
Flooring Grade Plywood/Wooden Floors	☹	☹	☹	☹	☹	☹	☹	☹
Warm Water Underfloor Heating	Refer to the product's datasheet which can be found at ultra-floor.co.uk							
Radiant Electrical Underfloor Heating System	Refer to the product's datasheet which can be found at ultra-floor.co.uk							
Vinyl Tiles (including LVT)****	☹	☹	✗	✗	☹	☹	☹	✗
UltraFloor DPM IT	✓N	✓***	✓N	✓N	✓***	✓***	✓N	✓N
Pre-smoothing prior to DPM or MVS	✓D	✓D	✗	✗	✓D	✓D	✓D	✗
Adhesive Residues	✗	✓	✗	✗	✓	✓	✗	✗
Non-flexing Steel Floors	✗	✓	✗	✓N	✓	✓	✗	✗
Floating Floors	☹	☹	☹	☹	☹	☹	☹	☹
Flooring Grade Asphalt	✗	✓	✗	✗	✓	✓	✗	✗
External Use	✗	✗	✗	✗	✗	✗	✓	✗

* Depending on substrate porosity, nature of flooring and good site drying conditions.
 ** Coverage details should be used as a guide but may vary depending on substrate and site conditions. DPM coverage and consumption based on application to clean smooth surfaces at 20°C. These may vary depending on temperature and surface evenness.
 *** Priming not required, if Level IT Multi Pro, Pro30 or Hydra Bond is applied within 12 hours of DPM application. If after 12 hours, it is recommend to prime using UltraFloor Prime IT Multi-surface Primer neat.

CONTINUED	REPAIR & FINISHING COMPOUNDS		MOISTURE PROTECTION		PRIMER	
Level It Flex Flow	Patch IT	Feather IT	DPM IT	Suppress IT	Prime IT Multi-surface Primer	Prime It Grit
Single Part, Semi-Rapid, Fibre Reinforced, Flexible, Water-Based Smoothing Underlayment	Rapid Drying Repair Mortar	Rapid Drying Finishing Compound	Rapid Curing Primer Membrane	Single Component, Two-coat Moisture Vapour Suppressant	Primer for Porous and Non-porous Substrates	Ready-To-Use, Fast Drying, Gritty Primer Designed To Enhance Adhesion
30-40 Minutes*	10 Minutes*	10-15 Minutes*	45-75 Minutes Pot Life*	N/A	N/A	N/A
2 Hours*	30 Minutes*	30 Minutes*	5 Hours*	N/A	N/A	N/A
4 Hours*	90 Minutes*	15 Minutes to 1 Hour*	N/A	N/A	1-2 Hours Drying Time	15 Minutes Drying Time
2-10mm	1-20mm	Feather Edge to 3mm	2.75m ² /kg at 345 Microns	N/A	N/A	N/A
Yes	Yes	Yes	N/A	N/A	N/A	N/A
Approx. 6m ² at 2mm	6.5m ² at 1mm / 3.2m ² at 2mm	6m ² at 1mm	Power Floated Concrete 13.75m ² (98%RH) 15m ² (90%RH) Cementitious Screed 9m ² (98%RH) 12m ² (90%RH)	Approx. 16.5m ² (based on two coats)	Porous: 1:1 dilution 70-100m ² ; 3:1 dilution 140-200m ² ; 5:1 dilution 170-250m ² Non-porous: Neat 25-50m ²	Approx. 9-13m ² per KG
Yes	N/A	N/A	N/A	N/A	N/A	No
31.1 N/mm ²	40.0 N/mm ²	7.0 N/mm ²	N/A	N/A	N/A	N/A
9.2 N/mm ²	4.5 N/mm ²	3.0 N/mm ²	N/A	N/A	N/A	N/A
20kg	10kg	5kg Bucket & 10kg Bag	5kg & 10kg	5L	5L	5L
48	56	100	80 & 48	96 or Boxes of 4	96 or Boxes of 4	96 or Boxes of 4
✓D	✓D	✗	✓	✓	✓D	N
✓D	✓D	✓	✓	✓	✓D	N
✓N	✓N	✓	✓	✓	✓N	✓
N	✓D	✓	☹	☹	✓D	N
N	✓N	✗	✗	✗	✓N	✓
✓D ☹	✓D ☹	✗	✗	✗	✓D ☹	N
☹	✗	✓D ☹	✗	✗	☹	☹
	✗	✗	✗	✗		
	✗	✗	✗	✗		
N	✗	✗	✗	✗	☹	☹
✓N	✓N	✗	N/A	N/A	✓N	✓
N	✗	✗	N/A	N/A	N/A	N/A
N	✗	✗	✗	✗	✗	N
✓N	✗	✗	N/A	N/A	✓N	✓
☹	☹	☹	N/A	N/A	☹	☹
✗	✗	✗	✗	✗	✓N	✓
N	✗	✗	✗	✗	✗	✗

**** Old 'crunchy' tiles should not be abraded as they may have been manufactured using asbestos fibres. Such tiles are typically 225mm (9 inches) square tiles and are often bonded onto a black adhesive. Not all vinyl flooring is suitable to be covered over. Cushioned or flexible vinyl tiles should not be overlaid and must be removed.
 D Prime first with UltraFloor Prime IT Multi-surface Primer diluted as per installation guides.
 N Prime first with UltraFloor Prime IT Multi-surface Primer neat as per installation guides.

PRODUCT SELECTOR

	ADHESIVE					
	Grip & Grab IT	Stick IT 500	Stick IT 542	Stick IT 543	Stick IT 611	Stick IT 640
Product Features	All Purpose Adhesive	Carpet & Vinyl Adhesive	Slip Resistant Carpet Tackifier	High Temperature, Pressure Sensitive LVT Adhesive	Linoleum Adhesive	Vinyl, PVC & Rubber Floorcovering Adhesive
Working Time at 20°C	15 Minutes*	15-30 Minutes*	30 Minutes*	N/A	15-30 Minutes*	120 Minutes*
Set Time at 20°C	2.5-3mm Per Day*	24 Hours	60 Minutes*	24 Hours*	24 Hours*	48 Hours*
Ready to Receive Floor Coverings	N/A	0-10 Minutes	From 10 Minutes*	Immediately**	Immediately*	10-20 Minutes*
Application Thickness	3mm	N/A	N/A	N/A	N/A	N/A
Protein Free	Yes	No	No	No	No	No
Coverage**	7 linear metres (bead thickness 3mm / width 10mm)	B1 Trowel per sqm: 325-425 g/sqm A2 Trowel per sqm: 300-350 g/sqm B1 Trowel per unit: 35-46 sqm/unit A2 Trowel per unit: 42-50 sqm/unit	Impervious floors per sqm: 50-100 g/sqm Porous floors per sqm: 100-150 g/sqm Impervious floors per unit: 100-200 sqm/unit Porous floors per unit: 66-100 sqm/unit	A2 Trowel per sqm: 200-300 g/sqm A2 Trowel per unit: 44-50 sqm/unit	B1 Trowel per sqm: 260-300 g/sqm B1 Trowel per unit: 36-42 sqm/unit	A2 Trowel per sqm: 225-275 g/sqm A2 Trowel per unit: 43.6-53.3 sqm/unit
Application Tool	N/A	B1 trowel when installing carpet, needlepunch, linoleum and cork. A2 when installing PVC and cushion vinyl flooring and carpet with a PVC backing.	Lambswool roller or brush. Can be sprayed	A2 Trowel	B1 Trowel	A2 Trowel
Density	N/A	1.56 kg/litre	1.04 kg/litre	1.04 kg/litre	1.16 kg/litre	1.27 kg/litre
Pack Size	290ml	15kg	10kg	10kg	11kg	12kg
Pallet Quantity	12 per box	44	60	44	44	44
Needlepunch	×	✓	✓	✓	✓	✓
Hessian	×	✓	✓	×	✓	✓
Felt	×	✓	✓	✓	×	✓
Synthetic	×	✓	×	✓	×	✓
Latex-foam	×	✓	×	✓	×	✓
PVC	×	✓	✓	✓	×	✓
Bitumen/Felt Backed	×	✓	✓	✓	×	✓
Fabric/Non Woven	×	✓	✓	×	✓	✓
Linoleum sheet/tile	×	✓	×	✓	✓	✓
Cork	×	✓	×	✓	✓	✓
Vinyl composite	×	×	×	✓	✓	✓
Cushion vinyl	×	×	×	×	×	✓
Rubber sheet/tile	×	×	×	×	×	✓
Polyolefin	×	×	×	×	×	✓
LVT	×	✓	×	✓	×	✓

* The listed values are dependent on the porosity of the subfloor, temperature and relative humidity of the room.
 ** Dependent upon type of application



PRODUCT SPECIFICATIONS

All UltraFloor smoothing underlayments, flooring adhesives, repair and finishing compounds and our damp proof membrane are fully CE classified, their 'Declaration of Performance' certificates can be downloaded at the click of a button from ultra-floor.co.uk.

The European Standards explained:

BS EN 13318:2000

BS EN 13318:2000 states the definition of a screed as:

Layer or layers of screed material laid in situ, directly onto a base, bonded or unbonded, or onto an intermediate layer or insulating layer, to obtain one or more of the following purposes:

- to obtain a defined level;
- to carry the final flooring;
- to provide a wearing surface.

BS 8204-1:2011

BS 8204-1:2011 gives recommendations for the design and laying of concrete bases and cementitious levelling screeds to receive in situ floorings. It also gives recommendations for constituent materials, design, work on site, inspection and testing of concrete bases that are to receive in situ wearing screeds.

BS EN 13813:2002

BS EN 13813:2002 is entitled 'Screed material and floor screeds - Screed material - Properties and requirements'.

It defines for fresh screed material the performance related to setting time, consistency, pH value and for the hardened screed material, compressive strength, flexural strength, wear resistance, surface hardness, resistance to indentation, resistance to rolling wheel, shrinkage and swelling, modulus of elasticity, bond strength, impact resistance, reaction to fire, acoustic performance, thermal resistance and chemical resistance.

Cementitious smoothing underlayments (CT) are classified on both compressive (C) and flexural (F) strength and abrasion resistance (AR*) where relevant e.g. CT C35 F6 AR0.5.

*abrasion resistance, in the UK for wear resistance use British Cement Association test.

BS EN 8203:2017

BS EN 8203:2017 titled: Installation of resilient floor coverings - code of practice, provides recommendations for installation of cork, linoleum, plastics and rubber floor coverings, as well as including recommendations for bases.

BS EN 5325:2001

This British Standard provides recommendations for the installation of textile floor coverings in new or existing buildings. It covers all products composed of textile material with a pile or non-pile use surface, and includes the laying of carpet tiles, either with the use of a permanent adhesive or a tackifier. It details suitable methods of design and installation and advises on the selection of the materials required for their implementation.

BS EN 8201:2011

Code of practice for installation of flooring of wood and wood-based panels. It gives recommendations and guidance on the material, environment and installation variables that combined have a fundamental effect on the performance and serviceability of finished wood flooring. It outlines the most up-to-date specifications involved in laying flooring and illustrates typical constructions on which it might be laid.



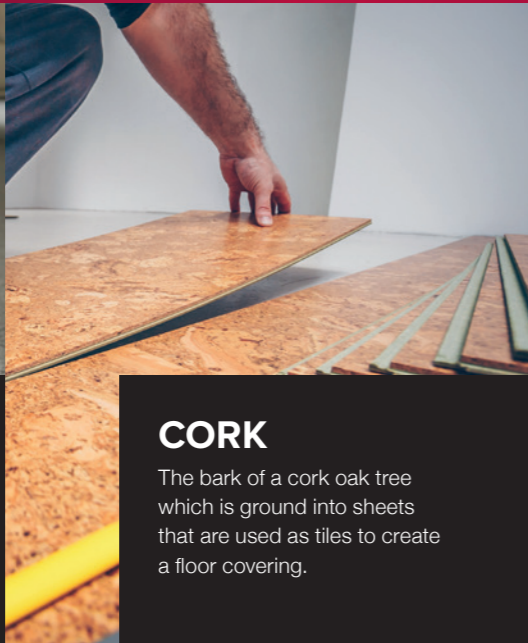
FLOOR COVERINGS

There is a vast array of final floor coverings available, these pages describe each of the most popular kinds.



CARPET

A textile floor covering typically consisting of an upper layer of pile attached to a backing.



CORK

The bark of a cork oak tree which is ground into sheets that are used as tiles to create a floor covering.



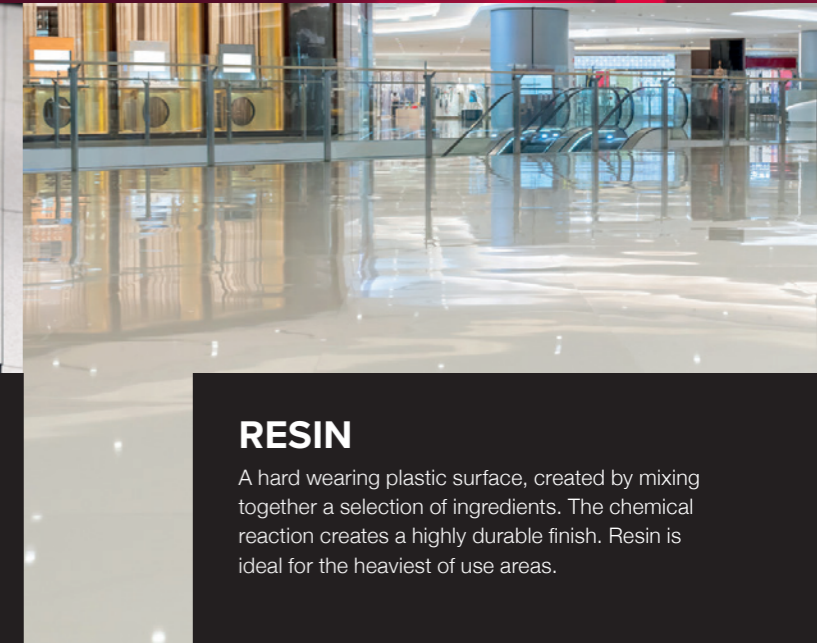
LAMINATE

A multi-layer synthetic flooring which is fused together using a lamination process.



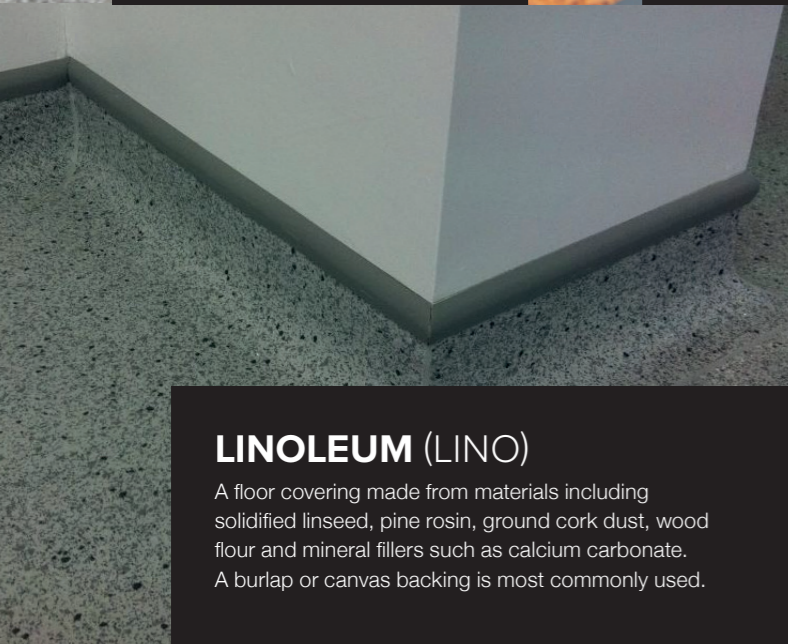
RAISED ACCESS FLOORING

A raised surface providing an elevated structural floor above a solid substrate, creating a hidden void for the passage of mechanical and electrical services.



RESIN

A hard wearing plastic surface, created by mixing together a selection of ingredients. The chemical reaction creates a highly durable finish. Resin is ideal for the heaviest of use areas.



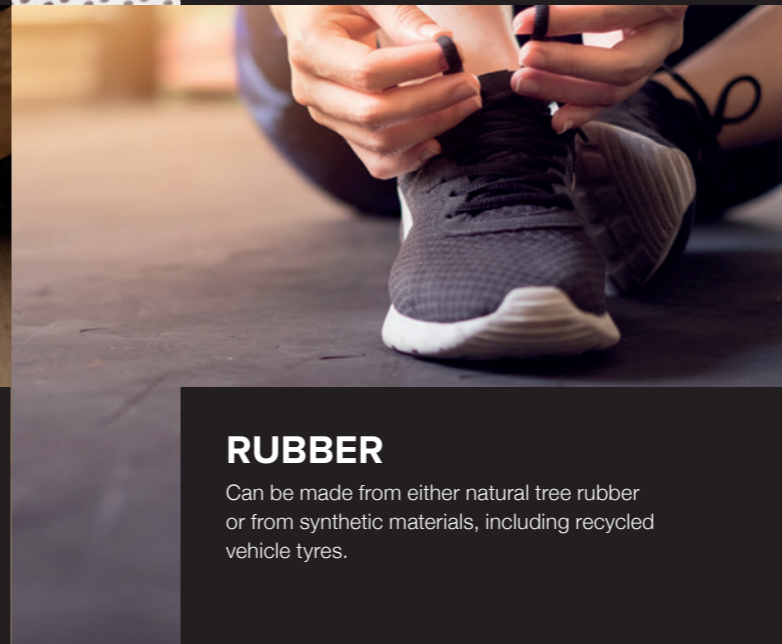
LINOLEUM (LINO)

A floor covering made from materials including solidified linseed, pine rosin, ground cork dust, wood flour and mineral fillers such as calcium carbonate. A burlap or canvas backing is most commonly used.



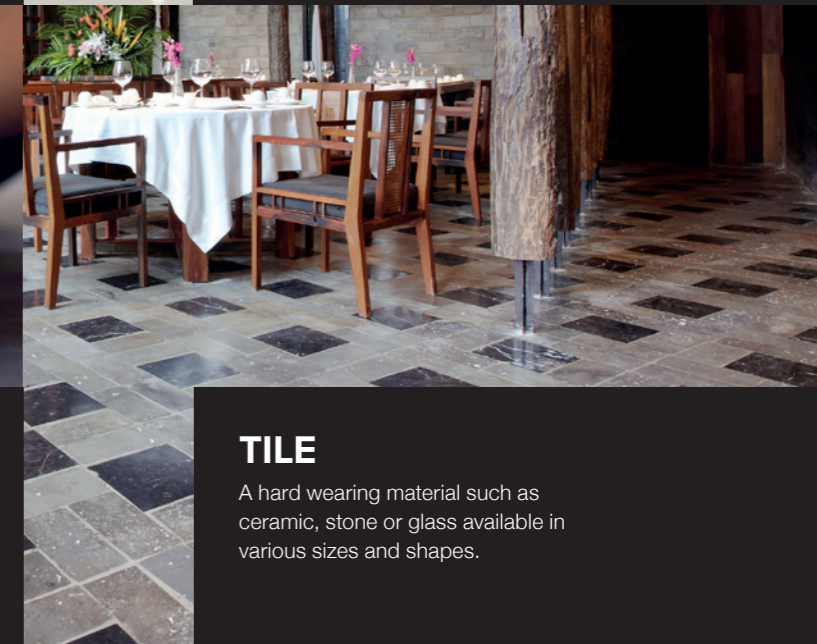
LVT (LUXURY VINYL TILE)

LVT is made of a series of layers including a photographic layer and the flooring's primary component, PVC. The product offers a look of real wood or stone flooring.



RUBBER

Can be made from either natural tree rubber or from synthetic materials, including recycled vehicle tyres.



TILE

A hard wearing material such as ceramic, stone or glass available in various sizes and shapes.



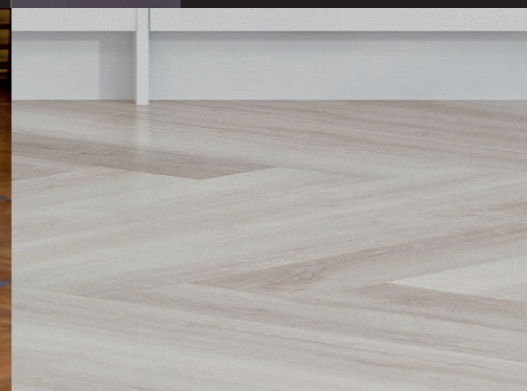
PAINT

Either a water or resin based decorative surface coating that offers a wear proof finish.



PARQUET

This floor covering is made of small blocks of timber that are usually adhered to the subfloor/substrate using a bitumen adhesive. Parquet is often laid in a herringbone pattern.



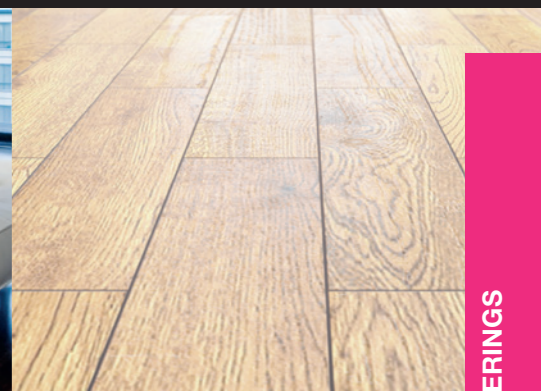
VINYL

PVC chips are formed into solid sheets of different thicknesses by heat and pressure.



SOLID WOOD

Solid wood flooring planks milled from a single piece of timber.



ENGINEERED WOOD

Engineered wood is man-made/manufactured.

COMMON TERMS

A great deal of terminology is used within the flooring industry. This is a collection of those terms used the most by UltraFloor.

Abrasion Classification

Level of resistance to wear.

Anhydrite/Hemihydrate/Gypsum

These are all names for a calcium sulphate based screed (non-cement).

Bead Thickness

Diameter of the product when applied.

Compressive Strength

The maximum resistance of a material under compression before failure.

Curing Time

When a product reaches its designated strength.

Cushioned or Flexible Vinyl Tiles

Vinyl that deforms under load.

DPM & MVS

DPM stands for Damp Proof Membrane and MVS is a Moisture Vapour Suppressant.

Drying Time

The time taken for the product to lose sufficient moisture so it can be overlaid.

External Use

The product is suitable for use outside and is resistant to frost and unaffected by rain.

Fast-track

A product with quick drying and setting properties for early application of floor coverings.

Feather Edge

A fine edge achieved by tapering.

Fibre Reinforced

A product which has added fibres to its formulation, providing greater strength.

Finishing Compound

A fine product providing a finished surface.

Flexible Floor

A floor that will flex/move when loaded.

Flexural Strength

The amount of stress and force a product can withstand whilst resisting failure from bending.

Floating Floor

A floor that is not bonded to the surface below it.

Floor Coverings

A permanent covering such as carpet or vinyl providing a suitable, decorative final floor.

Floor Grade Asphalt

The product comprises suitably graded limestone aggregates bound together with an asphaltic cement (primarily refined bitumens) to produce a dense, void-less material.

Floor Sealer

Liquid coating applied to a cementitious wear surface to protect from spillages and other absorbent oils and liquid contaminants.

Floor Test

A test taken to measure the fluidity of a product.

Foot Traffic

When a product has cured enough to be walked on without being compromised.

Forklift Traffic

When a product has cured enough to take the weight of a forklift truck without being compromised. This only applies to products suitable for use as a wear surface.

Green Screed

A screed that is still within its curing and drying times.

Laitance

Fines collected on the surface of the subfloor/substrate during the drying/curing phase.

Industrial Use

Products capable of being heavily trafficked.

Internal Floors

Surfaces that are sheltered from external elements.

Levelling Compound

A levelling compound is usually applied by hand or pump at a thickness of at least 5mm. It provides a defined level surface, either as a final wear surface or for final floor finishes to be applied to.

Linear Metre

Is a measurement from point A to point B which equals 100cm.

Low Odour

The smell of the product is contained to avoid transfer.

Mezzanine Decks

A mezzanine is an intermediate floor (or floors) in a building which is open to the floor below.

Moisture Tolerant

A product suitable for use under a DPM.

Movement Joints

Essential design features which are gaps within a floor design that are filled with a flexible material.

Non-porous/Non-absorbent

Refers to a surface which does not allow liquid, air or moisture to pass through it such as flooring grade asphalt and ceramic tiles.

Old 'Crunchy' Tiles

Old vinyl tiles that have been manufactured with asbestos.

Open Time

The time from application to subfloor/substrate when the product is still useable.

Porous/Absorbent

Refers to a surface which does allow liquid, air or moisture to pass through it such as concrete and plywood.

Pot Life

The length of time after mixing a product that it is still useable.

Power Floated Concrete

A dense and smooth concrete subfloor/substrate that has crack-resistant properties.

Primer

A substance used to seal a surface to prevent absorption from subsequent layers and aid adhesion.

Protein Free

A product formulation free of any protein raw materials making it ideal for use in biological sensitive areas.

Pumpable

A product which may be applied by using a pump machine as well as a hand trowel.

Rapid Setting

A product modified so it sets quickly, by utilising different cements and technologies.

Relative Humidity (RH)

The amount of water vapour present. A substrate below 75%RH is considered dry.

Repair Mortar

A product which is designed for repairing small cracks.

Resin Floor Finishes

Are produced by a chemical reaction between polymers which are absorbed into and create a chemical bond with the substrate they are installed on.

Scratch Coat

A thin layer applied to the subfloor/substrate prior to main application.

Screed

Usually a screed is the subfloor/substrate, however some people refer to smoothing underlayments as screeds.

Setting Time/Set Time

The time taken from mixing for the product to set hard.

Shear Strength

A material's ability to resist forces that can cause the internal structure to slide against itself.

Skin Formation

The length of time after which the product will begin to dry out forming an all over skin.

Smoothing Compound

A product applied by hand at only a few millimetres depth, providing a smooth surface for the application of final floor coverings.

Smoothing Finishing Compound

A cementitious smoothing underlayment used to smooth over a surface or used as a wear surface.

Smoothing Underlayment

A cementitious leveller used to smooth over a surface prior to application of the final finish.

Straight Edge

A bar with one accurately straight edge, used for testing whether something else is straight.

Subfloor/Substrate

The structural base of the floor (e.g. concrete). The surface to have product applied to (e.g. old adhesive residues).

Subfloor Preparation

Any treatment prior to final decorative floor covering installation, including applying a DPM, priming, levelling or repair work.

SURFACE PREPARATION TECHNIQUES

Shotblaster - Profiling and cleaning with a shotblaster, is created by shot (steel abrasive) which is propelled at high velocity onto the background surface and the dust/debris contained in dedicated dust extractors. The shotblasting process is ideal for removing concrete laitance and coatings and surface contaminants on concrete, asphalt and stone surfaces. Shotblasters are also proven to prepare steel to SA2 ½ standard.

Single Head Grinders - Single head grinders grind and smooth. A singular Diamond Disc rotates within the body of the machine. Designed for use with Dust Extraction, Grinders remove concrete laitance, coatings, adhesives and smoothing underlayments.

Multi-head Grinders & Polishers - Multi-head Grinders have interconnecting arms fitted with diamond accessories that rotate within the body of the machine to uniformly grind and polish the surface.

STGs - Sanding discs and cleaning pads are placed under the Surface Texture Grinder drive plate and rotate to clean, sand, smooth and polish. Alternatively, heavy duty Diamond and PCD Drive plates can be fitted to the base of the machine to grind and smooth or remove coatings, bitumen and adhesives.

Planers - Drums on a planer are fitted with frails that rotate, cutting and grooving the background surface. Designed for use with dust extraction, Planers efficiently groove and reduce concrete and remove thermoplastic lines, roof chippings, screeds and smoothing underlayments.

Multi-strippers - Blades or picks fitted to the front of the machine, cut and lift the material to be removed. Multi-strippers are designed to remove vinyl, carpet, wood/laminate, rubber, smoothing underlayments and adhesives, with large models also efficiently removing ceramic and terrazzo tiles.

Dust Extractors - Feature high performance filters for efficient collection of high volumes of dust. 'H' filters are available for asbestos and toxic dust collection and containment in bins or longopac bags. Some models are dual purpose collecting dust and liquids.

Surface Regularity

Straight edge method described in BS8204. For Screeds, Bases in Situ Flooring, uses a 2m straight edge and maximum deviations are measured.

Tensile Strength

The resistance of a material to breaking under tension.

Thickness/Application Thickness/Depth

The level at which a product can be used from and to.

Two Part/Two Component

A product designed to have two parts which must be mixed together as instructed before use, the addition of water is not necessary.

UFH/Underfloor Heating

There are two basic types of underfloor heating:

1. Warm water pipe systems either (a) encased within the floor screed or (b) fixed within pre-formed panels (lightweight)
2. Electrical cable mats applied above the screed surface (often on backer boards and insulating systems)

Wear Surface/Surface Finish

A product designed to be used as the final exposed floor surface (non-floor covering) and is able to take either foot or vehicle traffic as stated.

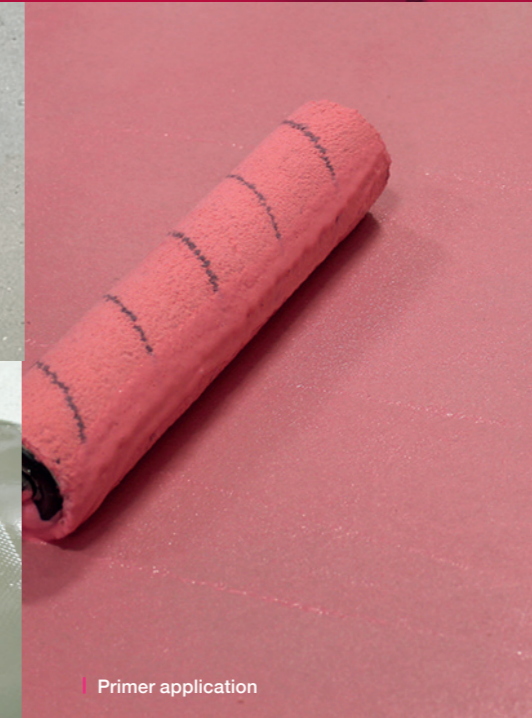
Wet Edge

When applying a smoothing underlayment the leading edge must always remain wet between pours.

Working Time

The time a product has a consistency that is useable e.g. flow from initial mixing until the flow is no longer suitable for levelling.

PREPARATION GUIDANCE



Subfloor/Substrate Types

The UltraFloor range of products are suitable for use on all subfloor/substrate types. These fall into two categories, porous and non-porous, the most common include:

POROUS

- Concrete
- Sand:Cement
- Flooring Grade Plywood
- Anhydrite

NON-POROUS

- Epoxy Resin Damp Proof Membrane
- Power Floated Concrete
- Flooring Grade Asphalt
- Porcelain, Ceramic, Quarry or Terrazzo Tiled Floors
- Steel Mezzanine Decks
- Access Panels

Subfloor/Substrate Preparation

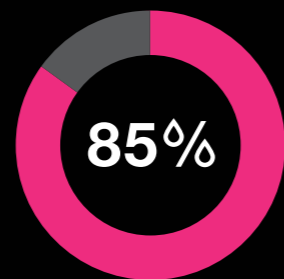
The suitability of a subfloor/substrate should always be fully assessed before carrying out any preparation or installing a floor covering. British Standard 8204 should be referred to for full guidance and clarification.

The main criteria to be assessed is:

1. Sound/Solid - is the subfloor/substrate strong and stable?
2. Dry - has the subfloor/substrate dried/cured completely?
3. Free from Contamination - is the subfloor/substrate clean?
4. Laitance Free - is the subfloor/substrate surface free of fines?

If the answer to any of these is 'no', then the subfloor/substrate is not suitable to be laid onto and further preparation is required.

Testing for Moisture

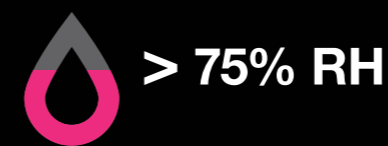


85% OF COMPLAINTS ARE AS A RESULT OF MOISTURE

Source: FITA

If a subfloor/substrate has not reached the required level of dryness before a floor covering is laid then residual moisture held between the aggregate and cement (or other binder) will slowly be released, reaching the subfloor/substrate preparation and the floor covering causing damage from beneath.

Testing the moisture of a subfloor/substrate can be relatively straightforward, providing you know what you are assessing and have the appropriate equipment. British Standards are in place and subfloors/substrates should be tested in accordance with the British Codes of Practice BS 8203, BS 5325 and BS 8201. A BS hygrometer box should be used. This will provide a Relative Humidity (RH) reading. A reading above 75%RH is higher than is recommended to lay floors without a surface DPM.



If a moisture reading taken is greater than 75%RH then the subfloor/substrate is considered wet (when laying textile/resilient floor coverings, 65%RH for wood). Provided the subfloor/substrate is suitable to receive moisture protection products either a DPM or a MVS can be used. If using either UltraFloor DPM IT or UltraFloor Suppress IT, follow the product's respective usage instructions as detailed on the datasheet.

Only as a two coat application, UltraFloor DPM IT may be used on subfloors/substrates where there is an absence of a constructional base DPM provided there is no hydrostatic pressure. UltraFloor DPM IT should not be used in projects where hydrostatic pressure is a concern. In such cases the use of pressure relief drainage and/or external tanking systems must be the primary method of protection against moisture.

How to remove Contamination and Laitance?

Following British Standard 8204 all subfloors/substrates must be free from contaminants that may prevent adhesion such as dust, oils, grease, surface laitance, water soluble adhesive residues and weak smoothing underlayments etc.

Various methods and machines exist which are designed for the preparation, removal and finishing of subfloors/substrates prior to the application of any UltraFloor product. They include STGs, Shotblasters, Planers, Grinders, Multi-strippers and Dust Extractors.

We recommend that you contact The Preparation Group for advice on the appropriate method/s for your job and for equipment hire www.thepreparationgroup.com.

Smooth dense surfaces can be roughened by mechanical scabbling to enhance the key.

Priming

Why should you prime?

Priming of subfloors/substrates is key to ensuring the selected smoothing underlayment can perform to its optimum. It improves the flow and workability of the smoothing underlayment. There are three basic reasons why priming is important.

Firstly, priming reduces the absorbency of the floor; secondly it increases adhesion and finally, correct priming acts as an interface between materials preventing failure by reaction. The simple process of using the appropriate primer will minimise issues and result in:



PREPARATION GUIDANCE



Tiled underfloor heating cross section



Wear Surface



Level IT Super Flex 30 application

Underfloor Heating

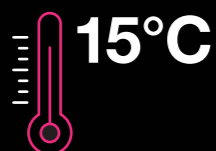
Various underfloor heating manufacturers exist including Warmup who offer a range of systems across the different types, including Sticky Mat and Total-16. We recommend that you always refer to the manufacturer's instructions when installing underfloor heating.

It is becoming increasingly common to come across floors with underfloor heating systems incorporated. It is important to note the following points and check the underfloor heating before you begin work.

Where warm water underfloor heating systems are incorporated, they must have been fully commissioned and brought up to their maximum temperature, and ideally switched off 48 hours before the application of UltraFloor products.

It is important to establish that the commissioning of the system has been carried out, consult the underfloor heating manufacturer for confirmation.

In the absence of other heat sources, the underfloor heating may be set to 'cutback' position to achieve an air temperature of 15°C. Any expansion or movement joints must be carried through to the finished floor surface.



The cables of radiant electrical underfloor heating systems must be secured to a sound, strong mechanically fixed cement faced backer board. UltraFloor products may also be used where electrical underfloor heating is used over cementitious or calcium sulphate subfloors.

In all cases our smoothing underlayments must be applied at a minimum thickness of 5mm above the cables for resilient, textile and timber applications and a minimum of 3mm for applications of stone, ceramic or porcelain products.

Warm water systems fixed within pre-formed insulation panels must be mechanically fixed to the existing subfloor/substrate, these must be sound and solid with no movement.

The panels should be primed depending on the porosity and type. In all cases our smoothing underlayments must be applied at a minimum thickness of 5mm above the cables for resilient, textile and timber applications and a minimum of 3mm for applications of stone, ceramic or porcelain products.

There is no requirement to commission warm water systems fixed within pre-formed insulation panels or radiant electrical underfloor heating systems before the application of UltraFloor products. These systems should be commissioned 7 days after the UltraFloor products have been applied.

To commission these systems the heating should be increased 5°C per day from ambient until the maximum operating temperature has been reached, and then decreased back down again by 5°C per day.



The Instarmac CPD - Specifying Tiling to Underfloor Heating Systems - will provide you with an understanding of the benefits of heated tiles and the types of system available. It will also cover key design and specification considerations and product choices for tiling to underfloor heating and selecting appropriate materials.

It will teach you how to confidently specify typical tiling system build-ups for underfloor heating, and you should also understand the importance of warranties and confidence in complete performance systems.

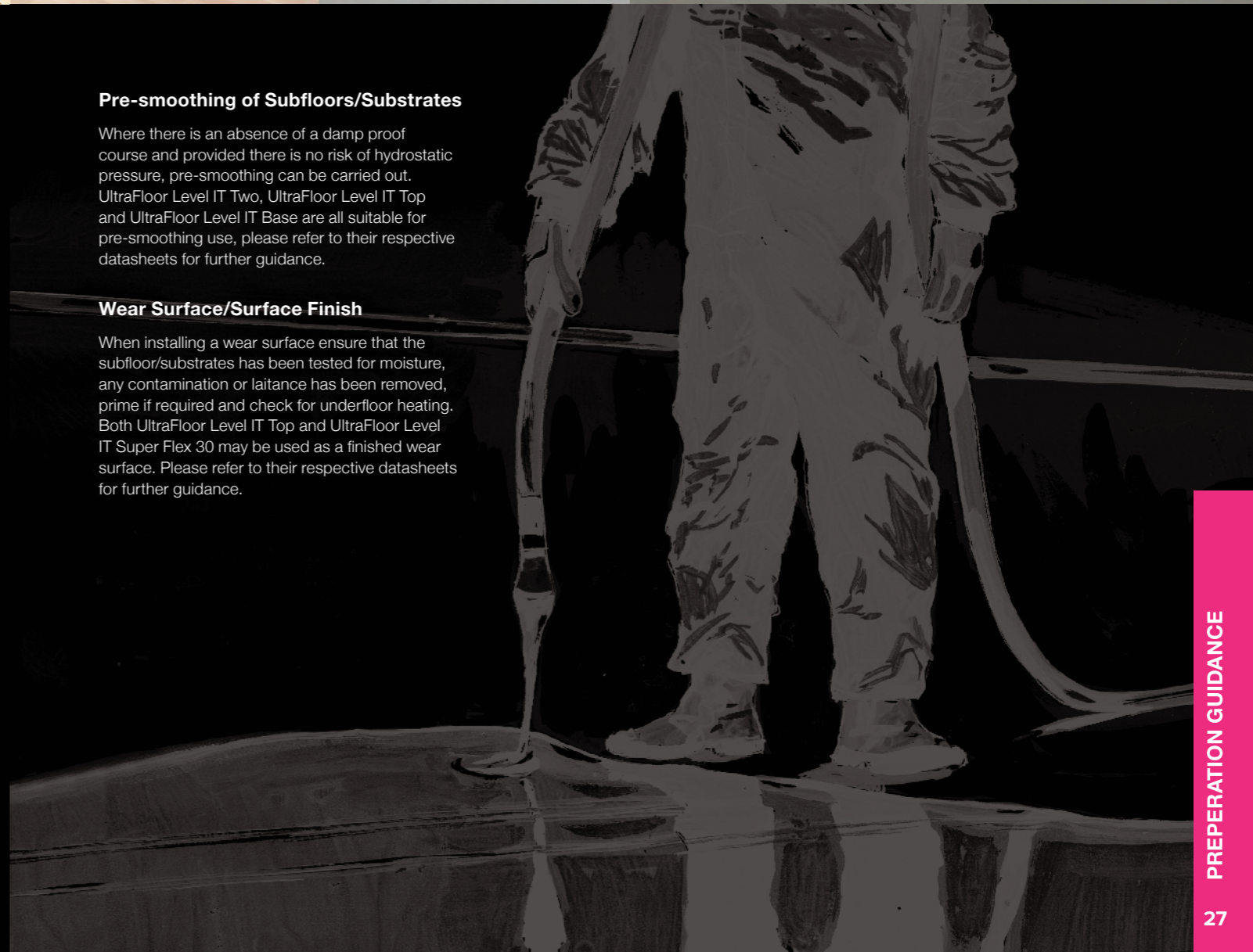
Please visit ultratileadhesives.co.uk or call 01827 254402 for more information.

Pre-smoothing of Subfloors/Substrates

Where there is an absence of a damp proof course and provided there is no risk of hydrostatic pressure, pre-smoothing can be carried out. UltraFloor Level IT Two, UltraFloor Level IT Top and UltraFloor Level IT Base are all suitable for pre-smoothing use, please refer to their respective datasheets for further guidance.

Wear Surface/Surface Finish

When installing a wear surface ensure that the subfloor/substrates has been tested for moisture, any contamination or laitance has been removed, prime if required and check for underfloor heating. Both UltraFloor Level IT Top and UltraFloor Level IT Super Flex 30 may be used as a finished wear surface. Please refer to their respective datasheets for further guidance.

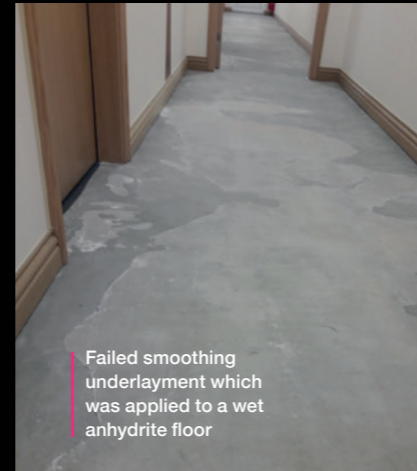


SUBFLOOR/ SUBSTRATES TYPES

Various subfloor/substrate type guides are detailed on this spread. Should any others be encountered, please contact the UltraFloor Technical Department.



A newly laid dry screed which should be vacuumed before subfloor preparation



Failed smoothing underlayment which was applied to a wet anhydrite floor



Cracked existing smoothing underlayment which should be removed



Existing asphalt should be sound, contamination free and assessed for cracks.

Sand:Cement/Concrete

Assess your subfloor/substrate following the Preparation Guidance section of this guide - have you tested for moisture? Is the floor sound? Has all contamination and laitance been removed? Is underfloor heating used?

Prime the subfloor/substrate using UltraFloor Prime IT Multi-surface Primer diluted.

Note: The sand:cement/concrete must be strong enough to receive the smoothing underlayment selected.

Anhydrite/Hemihydrate/Gypsum

Assess your subfloor/substrate following the Preparation Guidance section of this guide - have you tested for moisture? Is the floor sound? Has all contamination and laitance been removed? Is underfloor heating used?

Using a hygrometer, a moisture reading of less than 75%RH for textile/resilient floor coverings and less than 65%RH for wood must be achieved. The use of damp proof membranes or moisture vapour suppressants are not recommended.

Existing Smoothing Underlayments

Assess your subfloor/substrate following the Preparation Guidance section of this guide - have you tested for moisture? Is the floor sound? Has all contamination and laitance been removed? Is underfloor heating used?

Selected UltraFloor smoothing underlayments are suitable for use over most intact cementitious compounds.

The surface must be strong enough for an application of the selected smoothing underlayment. Any weak, friable or damaged material should be uplifted and repaired.

The mechanical process, multi-stripping is an ideal method used to remove old smoothing underlayments. Old adhesive residues should be removed and then the subfloor/substrate treated as absorbent, being primed using UltraFloor Prime IT Multi-surface Primer diluted.

Flooring Grade Asphalt

The asphalt must be flooring grade BS 8204. New asphalt must be left for a minimum of 7 days and degreased to remove surface bloom. Existing asphalt should be sound, contamination free, and assessed for cracks. If cracks are present they need to be repaired to give a continuous strong subfloor/substrate.



A floor showing the before and after effects of shot blasting

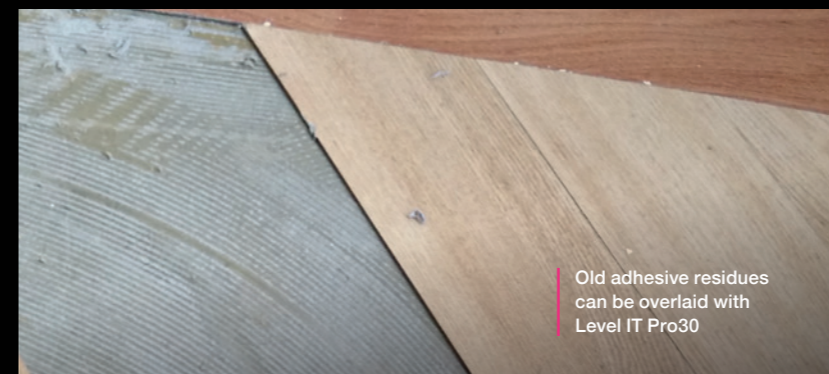


An anhydrite floor with laitance to be removed

The subfloor/substrate should be mechanically prepared removing any laitance using a grinder followed by vacuuming to remove the dust. It is always advisable to seek the screed manufacturer's instructions on how best to prepare the surface.

These type of screeds often incorporate warm water underfloor heating systems, check that the system has been fully commissioned, see relevant manufacturers' technical datasheet.

Prime the subfloor/substrate using UltraFloor Prime IT Multi-surface Primer diluted and applied in two coats. See relevant datasheet for complete instructions.



Old adhesive residues can be overlaid with Level IT Pro30

Adhesive Residues

Assess your subfloor/substrate following the Preparation Guidance section of this guide - have you tested for moisture? Is the floor sound? Has all contamination and laitance been removed? Is underfloor heating used?

We recommend the use of popular smoothing underlayment, UltraFloor Level It Multi Pro over old adhesive residues, see relevant product datasheet. As long as residues are hard, stable, firmly bonded and they are not water soluble then UltraFloor Level It Multi Pro can be used without priming. If any other UltraFloor smoothing underlayment has been selected then all adhesive residues should be mechanically removed.



The use of epoxy resins bulked out with sand is normally sufficient. We recommend priming prior to the application of the smoothing underlayment with UltraFloor Prime IT Multi-surface Primer neat.

Power Floated Concrete

Assess your subfloor/substrate following the Preparation Guidance section of this guide - have you tested for moisture? Is the floor sound? Has all contamination and laitance been removed? Is underfloor heating used?

Power floated concrete should be mechanically abraded (by shot blasting or scarifying) to remove surface hardeners and expose the cement/aggregate.

Prime the subfloor/substrate using UltraFloor Prime IT Multi-surface Primer neat.

Note: Primer must be left to dry thoroughly.

SUBFLOOR/ SUBSTRATES TYPES



We recommend priming wood

Flooring Grade Plywood/Wooden Floors

Unlike sand:cement and concrete, which are inherently strong and stable without any vibration or movement, there are different considerations to be made with timber/wooden subfloors/substrates. Existing timber/wooden floors must be clean, strong, rigid, level, stable and capable of withstanding the floor load. They should be sufficiently supported to prevent flexing.

UltraFloor products are suitable for use over many plywood subfloors/substrates provided the plywood is mechanically fixed and of suitable thickness. Normally plywood that has been in-situ for many years will be stable and suitable for application. Newly installed flooring grade plywood (e.g. SP101) must be mechanically fixed to a sound strong base. Timber/wood is prone to movement under varying levels of humidity so adequate ventilation beneath is necessary.

Identify if plywood is porous or non-porous prior to priming. Good quality plywood as a subfloor/substrate for floors is acceptable, providing it is properly braced to be rigid and non-deflecting, and it is not used in wet areas. BS5385-3:2014 states "Timber is not a suitable base for floor tiling in wet, frequently damp, or high humidity areas, unless appropriate precautions are taken." The Tile Association guide recommends the use of tile backer boards in these situations.

We recommend priming non-porous wood using UltraFloor Prime IT Multi-surface Primer neat and porous must be primed with a diluted solution.

Vinyl Tiles (including LVT)

Not all vinyl flooring is suitable to be covered over. Cushioned or flexible vinyl tiles should not be overlaid and must be removed along with the adhesive residue. The mechanical process, Multi-stripping is an ideal method used to remove old floor coverings. Hard vinyl tiles should be lightly abraded and then primed with UltraFloor Prime IT Multi-surface Primer neat.

Note: Old 'crunchy' tiles should not be abraded as they may have been manufactured using asbestos fibres. Such tiles are typically 225mm (9 inches) square tiles and are often bonded onto a black adhesive.

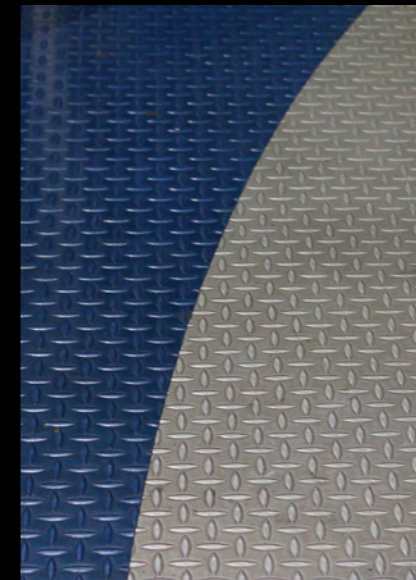


Tiles that are fully bonded and sound may be overlaid

Tiled

It is possible to overlay onto ceramic, terrazzo or quarry tiles, all other types of tile should be fully removed before installing any new flooring. The mechanical process, Multi-stripping is an ideal method used to remove old floor tiles.

The subfloor/substrate should be assessed to ensure that all tiles are fully bonded and sound. A mechanical abrasion (either shotblasting or grinding) of the tiles is recommended and will clean and prepare the surface, whilst also helping to enhance adhesion. All tiles should be degreased and allowed to dry before proceeding. We recommend priming the tiles using UltraFloor Prime IT Multi-surface Primer neat.



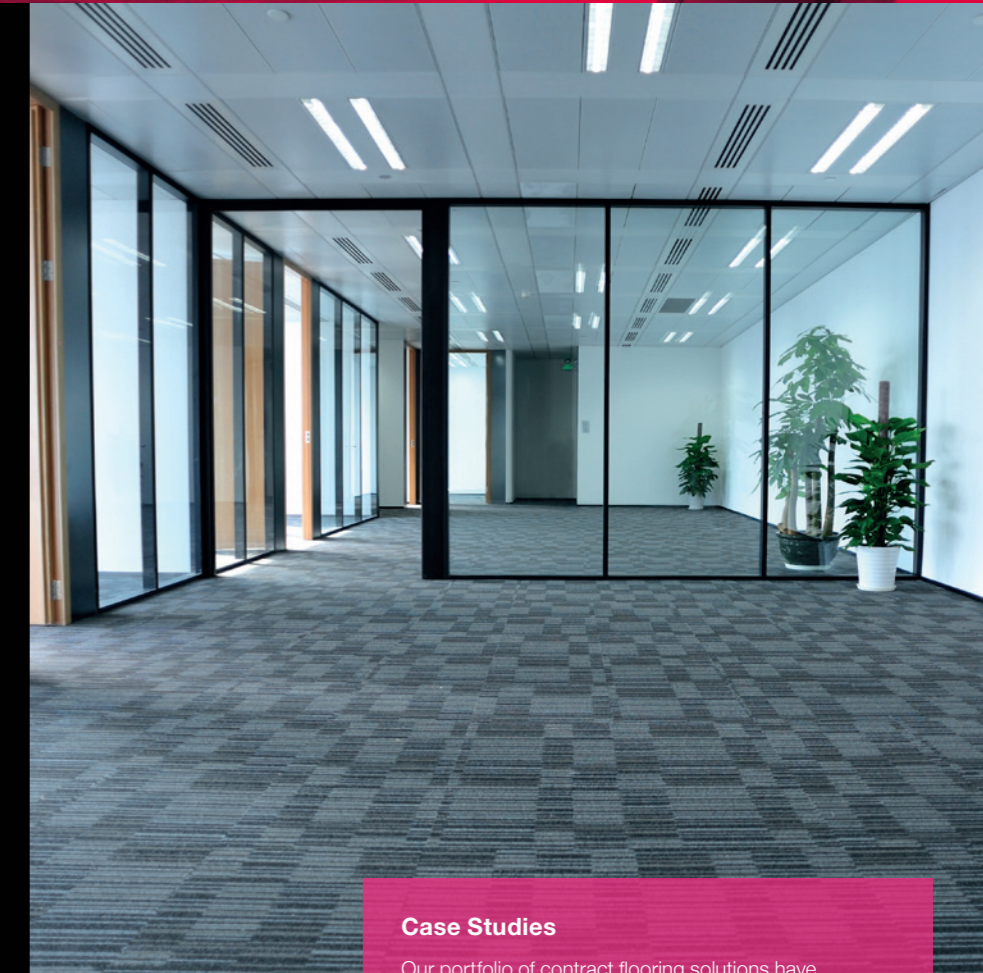
Non-flexing Steel Floors

All steel flooring including mezzanine decks should be structurally sound and fully supported. Mechanically abrade using a suitable mechanical machine (STG or shot blast) or a wire brush to give an abraded, corrosion free surface. Remove all excess traces of loose metal.

We recommend priming using UltraFloor Prime IT Multi-surface Primer neat when using smoothing underlayments direct to this subfloor/substrate. However, UltraFloor Level It Multi Pro can be used direct without a primer if the floor spec/design allows for a softer compound.

Floating Floors

Please contact the UltraFloor Technical Department on 01827 254402.

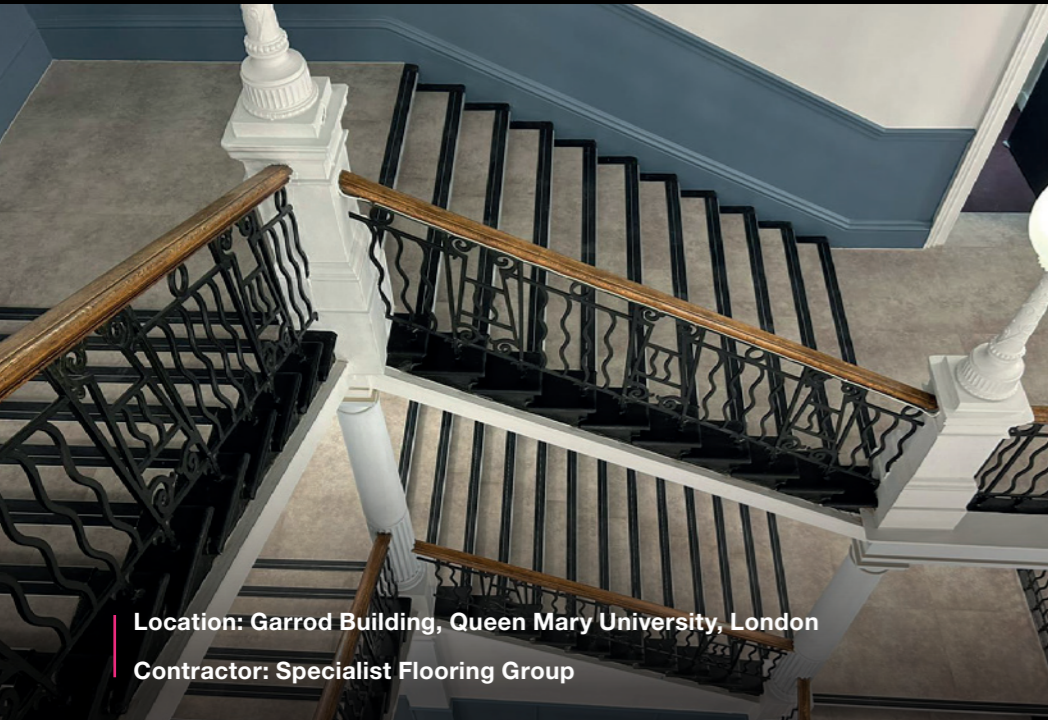


Case Studies

Our portfolio of contract flooring solutions have been used widely across industry sectors including Retail, Health, Education and Hospitality & Leisure.



CASE STUDIES



Location: Garrod Building, Queen Mary University, London
Contractor: Specialist Flooring Group



Background

The Royal London Hospital Medical College has been based at the Garrod Building since 1854. The historic building has undergone several alterations over the years to accommodate the rising number of pupils and advances in technology and teaching methods.

Today, the Garrod Building is used by both medical and dentistry students and is equipped with a lecture theatre, seminar and classroom facilities plus café and common room. The Garrod Building also houses the Royal London Hospital Museum – home to exhibitions on Joseph Merrick (the 'Elephant Man') and former London Hospital Nurses, Edith Cavell and Eva Luckes.

The Challenge

The enormity of the project and the resource required to complete the 3,465sqm installation was one of the biggest challenges for Specialist Flooring Group. At the peak of the project, eight installers were working hard to achieve the beautiful finish necessary for this historic building.

The Solution

"We used UltraFloor products due to the exceptional quality of the materials, which goes hand-in-hand with the support provided by our UltraFloor Area Sales Manager and Technical Team." Steve Fincham, Director at Specialist Flooring Group.

To prepare the substrate for the installation of Amtico, Forbo, TVS, Milliken, Bolon and Polyflor LVT, vinyl, rubber and carpet floorcoverings, Specialist Flooring Group utilised UltraFloor's latest product innovations, Level IT Multi Pro and Level IT Hydra Bond, to create a super smooth subfloor.

Level IT Hydra Bond is a ground-breaking, water-based, floor leveller that can be applied to bitumen and adhesive residues. Formulated for use in highly trafficked areas, Level IT Hydra Bond is guaranteed to have a super smooth finish and is easy to apply.

Speed, adhesion, and versatility are just three words to describe unbelievable performance of Level IT Multi Pro. It boasts an extended working time of 45 minutes, allowing larger areas to be covered at one time.

Both Level IT Hydra and Level IT Multi Pro can receive bonded floor coverings after just 4 hours and utilise UltraFloor's unique EnviroBead technology which is made with 20% recycled material to further enhance its exceptional flow and reduce environmental impact.

Results

Thanks to the expertise of the Specialist Flooring Group team and the performance of UltraFloor's subfloor preparation materials, this stunning installation took 6 months to complete and was delivered on time, to incredibly high standards.

On using UltraFloor, Steve Fincham, Director of Specialist Flooring Group, commented: "As always, the UltraFloor products performed to a quality standard. All underlayments used achieved a smooth finish which meant no more prep work once installed. They achieved the required strength and allowed good adhesion of the flooring."



Location: Haycock Manor, Wansford, Peterborough
Contractor: Stanground Carpets & Flooring Ltd

Background

Located in idyllic and breath-taking scenery, guests at the Haycock Manor Hotel will enjoy the highest standards of comfort, Michelin-rated food and incredible views of the River Nene.

The beautiful hotel is the epitome of contemporary luxury with each room boasting stunning modern décor combined with the 15th century features of the building.

The Challenge

With many areas of the hotel dating back to the 15th century, it is safe to say the floors were somewhat uneven and required extensive preparation before the floorcoverings could be installed.

The Stanground Carpets team also had to contend with several different substrates including underfloor heating on the ground floor, timber in the bedrooms and concrete in the kitchen areas.

The Solution

To prepare the substrates in the award-winning Prévoist restaurant, brand-new brasserie – The Haycock Kitchen – kitchen areas, drawing rooms, corridors and bedrooms, Stanground Carpets utilised UltraFloor's Prime IT Multi-surface Primer and Level IT Two multi-purpose floor leveller.

Formulated to promote the adhesion to all UltraFloor smoothing underlayments, Prime IT Multi-surface Primer reduces pinholing, minimising the risk of costly failures. With a coverage rate of 200sqm at 3:1 dilution, Prime IT Multi-surface Primer is a must-have product for all flooring installation projects.

After Prime IT Multi-surface Primer had cured, Level IT Two was trowel applied to a depth of 3mm.

There are many reasons why Level IT Two has become UltraFloor's most popular floor leveller. Its exceptional flow characteristics make it a very easy material to apply to a variety of substrates in both commercial and domestic flooring projects.

With a set time of 2.5 hours, Level IT Two can receive bonded floor coverings after just 8 hours, making it an ideal choice for projects with a tight deadline. What's more, because Level IT Two is available as a two-component system, it takes the guesswork out of mixing, reducing site errors and guaranteeing a perfect application every time. After just a few hours, Stanground Carpets could install the Karndean and Altro floorcoverings.



Results

Thanks to the talented team at Stanground Carpets and the superior performance of UltraFloor, guests at The Haycock Manor Hotel are now enjoying a fine dining experience in the most luxurious of settings.

On using UltraFloor, Stuart Clark, Managing Director at Stanground Carpets, commented: "Great results from the products. They performed as they are described with no prep being required due to a perfect finish."

CASE STUDIES



Location: Wimbledon Quarter Shopping Centre, London
Contractor: Specialist Flooring Group



Background

Centre Court Shopping Centre, now known as Wimbledon Quarter, has undergone an incredible transformation to become a local neighbourhood hub. The stunning community space 'encourages social interactions, events and gatherings.' With places to eat, shop and work, Wimbledon Quarter provides the perfect place for people to 'connect, engage and thrive.'

The Challenge

Specialist skills and expert workmanship was required for such a big project. Located in a highly trafficked area, ensuring the correct materials were used to install the different tiles was paramount to success.

The Solution

"We have a great relationship with Instarmac. We use UltraFloor materials as they are of a great standard, and we receive amazing technical support from the UltraFloor team. This ranges from site visits to having specifications written for us for certain projects.

"For this project, Instarmac's Alan Collins, visited the site, along with a representative of SFG, to confirm a specification for these works. This was very helpful as it meant we could keep the screed, smoothing compound, adhesive and grout, all under the Instarmac umbrella." Riley Gotham, Project Coordinator at Specialist Flooring Group.

To begin, Specialist Flooring Group's screeding team installed UltraFloor Screed IT UltraCem fibre modified cement binder across the 1800sqm area, before handing over to their flooring division to carry out the remainder of the subfloor preparation, by trowel applying UltraFloor Level IT Hydra Bond up to 5mm.

Level IT Hydra Bond is a ground-breaking, water-based floor leveller that can be applied to bitumen and adhesive residues. Formulated for use in highly trafficked areas, Level IT Hydra Bond is guaranteed to have a super smooth finish and is easy to apply – ideal for creating a lump-free subfloor, eliminating dangerous trip hazards for visitors and staff when moving around the shopping centre.

What's more, Level IT Hydra Bond utilises UltraFloor's unique Envirobead® technology – a process which enhances application and boasts unrivalled flow properties. It can receive bonded floor coverings after 4 hours and has an extended working time of 45 minutes for optimal usability.

With the substrate perfectly prepped, the team used UltraTile ProFlex S2 to fix the Domus Otta ceramic tiles, Acquastone Déco Nero Tiles and INTRAsystems Entrance Matting.

For the final flourish, UltraTile ProGrout Flexible was used in Grey and Silver Grey to grout the beautiful ceramic tiles.

Results

The work at Wimbledon Quarter completed on time with residents and visitors now enjoying these fantastic new facilities. On using UltraFloor, Riley continued: "UltraFloor materials were great for this project, as always. We had superb support from the start until the very end. Thank you Instarmac."



Location: Office Refurbishment, Upper Street, London
Contractor: Darcelle Flooring

Background

This spectacular commercial property has undergone an extensive makeover with thanks to the expertise of Darcelle Flooring and UltraFloor's subfloor preparation materials. The project spanned four floors and included office space, reception areas, stairs and toilets.

The Challenge

With just three weeks to complete the 1500sqm project, time of was of the essence to deliver outstanding results on time. In addition, with over 25 different trades working on site at the same time, Darcelle Flooring needed to work with subfloor preparation materials that would be accommodating to the constraints of the construction programme.

The Solution

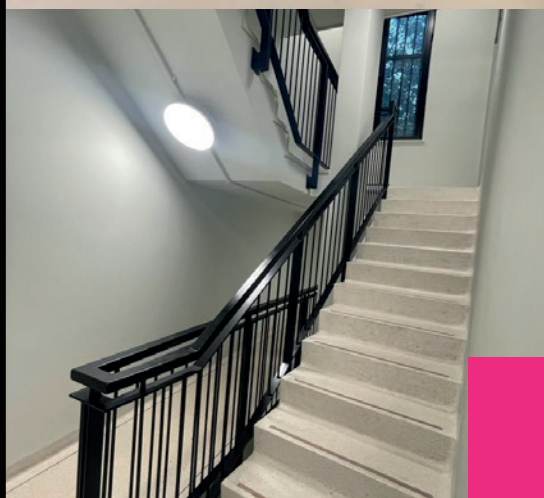
UltraFloor have a reputation for providing the industry with quality and innovative subfloor preparation materials. For this project, flooring contractors Darcelle Flooring, used UltraFloor Level IT Two to achieve subfloor smoothness across the 1500sqm area.

On using Level IT Two, Darren Elliott, Director at Darcelle Flooring, remarked: "Level IT Two has always been a superb product to work with. It flows extremely well and dries within the timeframe given, always leaving a nice smooth finish without the need to do any more prep work."

There are many reasons why Level IT Two has become UltraFloor's most popular floor leveller. Its exceptional flow characteristics make it a very easy material to apply to a variety of subfloors in both commercial and domestic flooring projects. Its low odour formulation means this fantastic all-rounder leveller is equally suited to confined areas, proving particularly popular in the education, health and hospitality sectors.

With a set time of 2.5 hours, Level IT Two can receive bonded floor coverings after just 8 hours, making it an ideal choice for projects with a tight deadline. What's more, because Level IT Two is available as a two component system, it takes the guesswork out of mixing, reducing site errors and guaranteeing a perfect application every time.

For this installation, Level IT Two was trowel applied, to a concrete subfloor, at depths of 2-12mm.



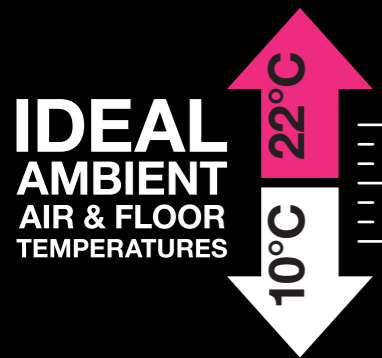
Results

On completing the project, Darren Elliott, commented: "We have been using UltraFloor for over 10 years. They have always been competitively priced with outstanding product performance, covering a variety of subfloors. Their technical advice is always spot on and the finish is just what we look for."

SITE CONDITIONS

The drying characteristics of cementitious smoothing underlayments are directly influenced by ambient air and floor temperatures. Cement within the smoothing underlayment cures through a process of hydration using moisture.

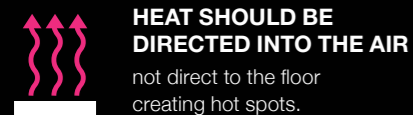
Extreme site conditions can affect this process i.e. below 5°C and above 30°C.



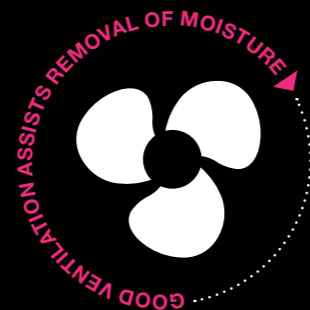
Ideal ambient air and floor temperatures for application are between 10°C and 22°C.

These temperatures should be maintained throughout application and curing periods. Outside of these temperatures consideration should be given to the following guidelines for good practice. Floor temperatures will be slower to respond to ambient air temperature so should be considered in advance.

High humidity and low temperature prolongs evaporation of moisture from the freshly applied smoothing underlayment and therefore extends drying times. This may ultimately delay installation of floor coverings. In such conditions planned heating (not gas heating) may be required before, during and after application of the product in order to promote ideal site conditions.



HEAT SHOULD BE DIRECTED INTO THE AIR
not direct to the floor creating hot spots.



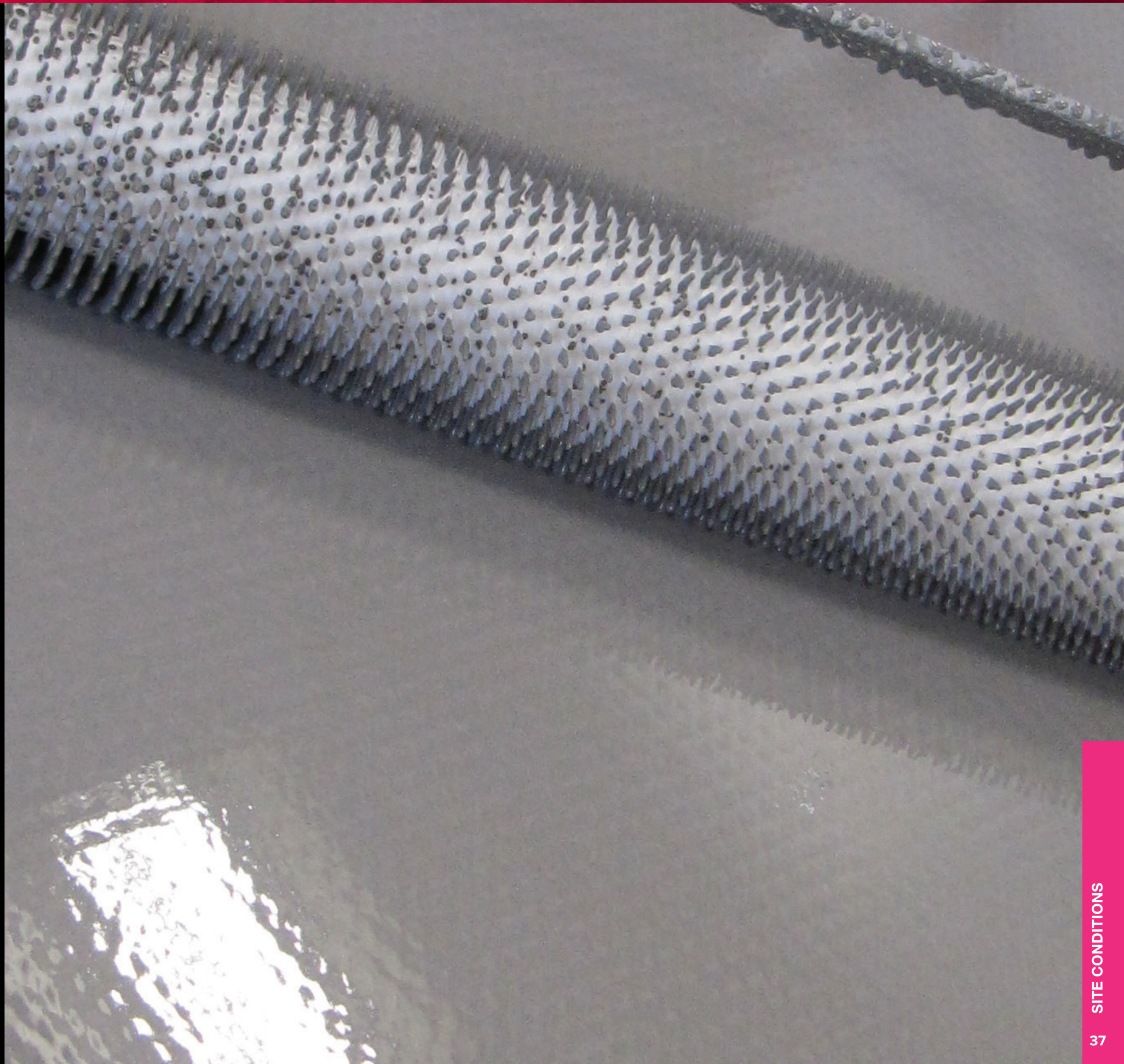
Good ventilation without direct drafts will also assist removal of moisture in the air from the building.

Failure to adopt such practices in such adverse site conditions may result in damp patches, slow drying and potential surface bleed within the curing smoothing underlayment.

Low humidity and high temperature conditions will speed up drying by fast removal of moisture from freshly applied smoothing underlayment.

Such conditions may cause rapid loss of moisture, required for the curing process, leading to irregular structure and strength build up. Such tensions within the drying smoothing underlayment could leave hairline surface defects. Under such conditions, smoothing underlayments should be protected from direct sunlight and drafts across its surface.

Good air flow within the build without causing drafts is essential to reduce high temperature build up.



TRAINING ACADEMY

To support our distribution network and the flooring contractors, we operate the Instarmac Training Academy, which is a calendar of in-person and online training events.



The academy has its own website where all events are loaded to a calendar with full session details provided and an online form included for you to register to attend. All of our events are free of charge - to find out more, please scan the QR code.

In 2024, 11 different topics were covered, and most sessions included another industry partner, such as FITA, Bihui and Protimeter.

To ensure our training is as accessible as possible, not only do we run online sessions, but we also take our academy days on tour around the country.

All webinars are available to watch again at a time that is convenient to you via the Instarmac Training Academy website.

“

“Whether you are very experienced or inexperienced these sessions provide you with some great knowledge on whatever topic is being discussed.”

”

“

“I did enjoy it thank you, it was great and very informative. I shall be recommending it to others within the industry.”

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“

“This training was really good and lots of information to take in, no matter if you think you know it all or not, you will walk away learning something new. The set up was easy and you can see a lot of planning has gone into this training to make them run smoothly.”

”

“

“I learnt so much on the webinar, already booked onto the next one.”

”

“

“Amazing course and amazing trainer. Fred explains everything to the detail and would highly recommend to anyone new or old to flooring.”

”

“

“Helpful and informative day. Fred was helpful and knowledgeable. Good day and helps me in my job moving forwards.”

”

“

“I was sceptic about it, but within first 10 minutes was a great course. I took a lot away from this and advise hugely.”

”

SITE SUPPORT

Whether at specification, contractor or early planning stage, our Site Support Team is always available for one-to-one dedicated assistance tailored to suit your needs. Our help with problem solving, practical installations and product performance, ensures that you have the ability to experience our products at your convenience, and guarantees confidence of application throughout your project.

MARKETING SUPPORT

Our team of in-house marketers can help support you with a wide range of marketing activities such as packaging design, technical documents, point of sale, social media collaborations and resources as well as image and video assets. All of our customers also have access to the Instarmac InstaHub – a bespoke portal where you can download product imagery, videos, social media assets and more to help you market your product offering, drive sales and keep your digital platforms up to date.

UltraFloor work hard on establishing partnerships with market-leading industry experts to ensure all UltraFloor products offer complete compatibility.

By working with complementary brands such as those below, UltraFloor offer solutions you can trust.



Cockerill & Co.



**ULTRA
FLOOR**



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