




MBM



INFRASTRUCTURE

PU DECKING

Strong, Heavy Duty Flooring Solution 



● ● ● Polyurethane Screeds

Polyurethane screeds are one of our most frequently installed flooring solutions in demanding industrial environments as well as those conditions requiring food grade flooring. Available in a wide range of colours, this heavy duty, trowel applied system can be installed in an array of different environments across a number of industries.

Designed with the highest order of durability, impact, abrasion, heat and chemical resistance, its lightly textured finish makes the product suitable for both wet and dry processing environments such as the food, beverage and chemical industries.





Slip resistant and with the ability to be steam cleaned, MBM Resin Flooring have installed this system into a number of environments across many industries such as but not limited to:

- ✓ Food Manufacturing;
- ✓ Breweries;
- ✓ Food Packaging;
- ✓ Bakeries;
- ✓ Commercial Kitchen;
- ✓ Engineering and Manufacturing;
- ✓ Warehouse and Storage;
- ✓ Plant Rooms.

If this system or one of the many other flooring solutions we can provide is of interest to you, please do not hesitate to contact us today where we can discuss your requirements before booking in a free, no-obligation site survey.

PolyScreed

RT

KDR 009.
July 2021 Version 3
TECHNICAL
DATA

Product Description

PolyScreed RT is a three part, heavy duty polyurethane based floor screed designed to provide excellent resistance to abrasion, chemical attack and other physical aggression. PolyScreed RT is stable to steam cleaning and hot water exposure at a thickness of 9mm and can be applied to falls.

Available Colours

PolyScreed RT is available in a range of twelve standard colours, other RAL and British Standard colours are available upon request. As with other MDI Based polyurethane products light colours exposed to UV light will be prone to cosmetic yellowing.

Product Advantages

- Steam Cleanable at 9mm Thick
- Slip Resistant Finish
- Excellent Chemical Resistance
- Fast Return to Service
- High Abrasion Resistance
- Seamless floor finish

Typical Areas of Usage

- Food Processing
- Breweries
- Chemical Plants
- Boiling Plants
- Workshops

Curing Schedule at 20°C

	POLYSCREED RT
Pot Life	15 Minutes
Pedestrian Traffic	12-16 Hours
Light Wheeled Traffic	24 Hours
Full Traffic	48 Hours
Full Cure 7 Days	

PLEASE NOTE:

At lower temperatures the above cure times will be increased

TECHNICAL DATA after 28 Days at 20°C

Compressive Strength	> 50 N/mm ² .
Tensile Strength	> 6 N/mm ²
Bond Strength	> 3 N/mm ² .
Flexural Strength	> 14 N/mm ² .
Slip Resistance Pendulum Test to BS7976-2	Dry > 50 Wet > 40
VOC	12g/l Based on a fully mixed unit Excellent general chemical resistance. For specific reagents contact KDR Technical Department
Chemical Resistance	

Surface Preparation

To be assured of maximum adhesion and best properties from KDR's resin products the correct surface preparation is essential. The concrete substrate must be a minimum of 28 days old and the residual moisture content must be a maximum of 75% RH. The substrate should be sound with a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm². The surface must be clean, dry and free of contaminants such as dirt, oil, grease, coatings and surface treatments and contain a functioning damp proof membrane. If in doubt, apply a test area first. Concrete substrates should be mechanically prepared using vacuum enclosed abrasive blast cleaning or diamond grinding equipment to remove laitance and previous surface treatments followed by thorough vacuuming leaving an open textured surface. Weak concrete must be removed and repaired using recommended KDR products.

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RESIN SYSTEMS

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PolyScreed RT

TECHNICAL DATA

Priming

Priming of all surfaces should be completed with EpoPrime or EpoSeal DPM. At a rate of no more than 4m²/kg. Work the primer well into the surface and ensure that toe in grooves are coated but not filled with primer. The primer should be lightly broadcast with suitable sized aggregate and be allowed to cure for a minimum of twelve hours prior to application of the PolyScreed HF system.

Note: Excess unbounded aggregate should be removed. (Maximum over coating time at 20°C is 24 hours)

Mixing

Pre-mixing of the Part A coloured liquid component is essential to ensure any pigment sediment is reincorporated. Empty both Part A coloured base and Part B brown hardener component into a rotary drum mixer and mix for a minimum of 1 minute then slowly add the aggregate component in stages, mix for a minimum of 2 minutes until a lump free consistency is obtained.

Never mix by hand. Do not split packs.

It is essential that the mixing station and the supply of materials are positioned such that a continuous supply of mixed material can be maintained to minimise breaks in the application process. Never mix by hand. Do not split packs.

Application

Pour the mixed material immediately onto the prepared substrate and spread evenly with a trowel to the required thickness achieving a flat surface.

Care must be taken to ensure chases and toe in grooves are fully filled, and each mix is blended into the previous mix, avoiding the disturbance of materials that have started to set up.

The ambient temperature of the substrate and works area should be a minimum of 15°C during the application and curing period, if not adhered to this can adversely affect the cure, colour and appearance of the system.

Materials and substrate temperature must be above 10°C.

Packaging

PolyScreed RT is supplied in 26.64 Kg units.

Coverage Rate

Approximately 12kg/m² at 6mm
Approximately 18kg/m² at 9mm

Storage

Store in dry conditions at temperatures between 10°C and 25°C. Do not expose to freezing conditions.

PolyScreed RT has a maximum of twelve months shelf life when stored in the original, unopened containers.

General Guidance

This Data Sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Specific installation advice can be provided upon request. Please consult our Sales Department to confirm that this Data Sheet is the current issue.

Limitations

- Product should be protected from other trades using kraft paper or similar breathable material. Polythene should not be used.
- Protect the installed floor from damp, condensation and water for at least twenty-four hours at 20°C.
- Ensure that the ambient temperature remains above 10°C for at least twenty-four hours after installation.
- PolyScreed HF is NOT UV stable. Yellowing will occur under UV exposure.
- The substrate and uncured floor must be kept at at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface.
- PolyScreed RT contains a white aggregate which imparts a slip resistant profile to the finished floor. When first installed, the floor has a uniform coloured surface. However, with general use, the white aggregate will begin to show through giving a decorative, mottled appearance.
- PolyScreed RT is produced by a batch manufacturing process, despite controlled manufacturing procedures and tolerances, variations in colour can occur between different batches. Products from different batches should not be used in the same area or on surfaces close together.
- The texture and appearance of PolyScreed RT may vary due to the hand applied nature of the product i.e. Sweep marks and a banded appearance may be visible.

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PolyScreed RT

TECHNICAL DATA



Cleaning Equipment

Clean all equipment immediately after use with Xylene.

KDR Resin Systems Ltd Unit 1 / Stour Vale Road Lye, West Midlands DY9 8PP	
CE	DOP 1700013
EN 13813 SR-B xxx AR0.5, IR10 Synthetic resin screed material for internal use in buildings	
Bond strength > 2 Nmm ²	
Chemical resistance NPD	
Electrical resistance NPD	
Impact resistance R 10	
Reaction to fire (I) NPD	
Release of corrosive substances NPD	
Sound absorption NPD	
Sound insulation NPD	
Thermal resistance NPD	
Water permeability NPD	
Wear resistance AR 0.5	



Health & Safety

This product is manufactured from materials intended to achieve high levels of performance as safely as possible. Specific components require careful handling and suitable safety equipment, this information is given in the product safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as possible, by dry wiping of the affected area, and thorough washing with soap and water. For further information please consult our Technical department.

Any specification or advice provided by the company, its representatives or agents, is based on the information supplied by the purchaser. The company cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. Nor can the company be accountable for composite systems however they are put together, and independent advice should be sought. Some materials used in this product may be derived from natural sources. As such some variation may occur. Variations in substrate and prevailing site conditions may also contribute to variation in finish and colour.



General Notes

This product data sheet should be read in conjunction with the relevant Safety Data Sheet and the Terms and Conditions of Sale. The information given in this data sheet is based on tests and experience and is believed to be reliable. The information and any samples provided are to assist purchasers to determine for themselves the suitability of the product for their particular application. Samples are provided to indicate colour and typical finish, however they are produced under laboratory conditions onto flat, prepared and primed surfaces, the finish achieved on site may differ due to substrate, site conditions and application techniques.

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PolyCove

KDR 010.
July 2021 Version 3
**TECHNICAL
DATA**

Product Description

PolyCove is a trowel applied cove grade material based upon a water dispersed liquid polyurethane resin system. Designed specifically for use with the Poly range of polyurethane flooring. PolyCove is used to form chemically resistant coving and fillets and can be used up to approximately 300mm high. It is often used in combination with PolyScreed to provide sealed and continuous floor/coving systems within high hygiene sterile process areas. Where used in wet environments or pressure washing is used, PolyCove should be over coated with 2 coats of PolyCoat HB.

Available Colours

PolyCove is available in a range of twelve standard colours, other RAL and British Standard colours are available upon request. Due to different aggregate blends and resin ratios, PolyCove has a different appearance/colour to other KDR products. Improved colour compatibility can be achieved by sealing the surface with PolyCoat HB As with other polyurethane products light colours exposed to UV light will be prone to cosmetic yellowing of the surface.

Product Advantages

- Fast Application
- Hygienic Interface with Floor
- Hard Wearing
- Good Chemical Resistance

Typical Areas of Usage

- Food Production Areas
- Bogling Plants
- Laboratories
- Food Processing
- Breweries
- Commercial Kitchen Areas

Curing Schedule at 20°C

	POLYCOTE
Pot Life	15 Minutes
Initial Gel Time	20 Minutes
Cure Time (Light Impact)	18 Hours
Cure Time (Heavy Impact)	48 Hours
Full Cure	7 Days

PLEASE NOTE:

At lower temperatures the above cure times will be increased

TECHNICAL DATA after 28 Days at 20°C

Compressive Strength	> 40 N/mm ²
VOC	< 11g/l Based on a fully mixed unit
Chemical Resistance	Good general chemical resistance. For specific reagents contact KDR Technical Department

Surface Preparation

To be assured of maximum adhesion and best properties from KDR's resin products the correct surface preparation is essential. The concrete substrate must be a minimum of 28 days old and the residual moisture content must be a maximum of 75% RH. The substrate should be sound with a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm². The surface must be clean, dry and free of contaminants such as dirt, oil, grease, coatings and surface treatments and contain a functioning damp proof membrane. If in doubt, apply a test area first. Concrete substrates should be mechanically prepared using vacuum enclosed abrasive blast cleaning or diamond grinding equipment to remove laitance and previous surface treatments followed by thorough vacuuming leaving an open textured surface. Weak concrete must be removed and repaired using recommended KDR products.

Priming

Priming of all surfaces should be undertaken with EpoTack Prime, taking care to ensure that all chases, toe ins and the inside of profiles are coated. Chase and toe ins should be checked to prevent ponding of the primer. Application of PolyCove should be effected into the tacky primer (Typically 1 to 3 hours after application) in order to maintain a sound adhesive bond.

NOTE: If the surface is porous it may be necessary to apply subsequent coats of the priming material until the substrate is sealed.

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PolyCove TECHNICAL DATA

Mixing

Pre-mixing of the coloured Part A should be carried out to ensure any light settlement is reincorporated. Thoroughly drain the contents of the hardener Part B into the Part A Container and mix the two thoroughly to produce a homogeneous mix. Load the mixed liquids into a rotary drum mixer and add the aggregate component in stages. Mix until fully worked out and a lump free consistency is obtained.

Never mix by hand. Do not split packs.

Application

Apply by steel trowel or coving trowel directly into tacky EpoTack Prime. Ensure that PolyCove is forced into chases and toe ins and up under profiles as required before smoothing to the required finish. Do not allow primer to cure to tack free state as this could lead to application/adhesion problems, if primer does get to tack free state reprime with EpoTack Prime.

The ambient temperature of the works area should be a minimum of 15°C during the application and curing period, if not adhered to this can affect the performance of the system.

Materials and substrate temperature must remain above 10°C all times.

Packaging

PolyCove is supplied in 19kg units.

Coverage Rate

Approximately 8.5 linear metres per unit at 4mm Thick, 100mm high, 50mm radius base.

Storage

Store in dry conditions at temperatures between 10°C and 25°C. Do not expose to freezing conditions.

PolyCove has a maximum of 12 months shelf life when stored in the original, unopened containers.

General Guidance

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Limitations

- PolyCove should be considered as an unsealed surface and in areas where hygiene is important should be sealed with PolyCoat HB.
- Due to different aggregate blends and resin ratios, PolyCove has a different appearance/colour to other KDR Poly products.
- Product should be protected from other trades using KraH paper or similar breathable material. Polythene should not be used.
- Protect the installation from damp, condensation and water for at least twenty-four hours at 20°C.
- Ensure that the ambient temperature remains above 10°C for at least twenty-four hours after installation.
- PolyCove is NOT UV stable. Yellowing will occur under UV exposure.
- The substrate and uncured floor must be kept at at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface.
- PolyCove is produced by a batch manufacturing process, despite controlled manufacturing procedures and tolerances, variations in colour can occur between different batches. Products from different batches should not be used in the same area or on surfaces close together.

Cleaning Equipment

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KDR Resin Systems Ltd Unit 1 / Stour Vale Road Lye, West Midlands DY9 8PP		
EN 13813	---	---
Synthetic resin screed material for internal use in buildings		
Bond strength	NPD	
Chemical resistance	NPD	
Electrical resistance	NPD	
Impact resistance	NPD	
Reaction to fire (I)	NPD	
Release of corrosive substances	NPD	
Sound absorption	NPD	
Sound insulation	NPD	
Thermal resistance	NPD	
Water permeability	NPD	
Wear resistance	NPD	

Health & Safety

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Client Code
Currency
Sales Rep
Valid Up To
Date
Page 1 of 1

QUOTATION : 000002

Stock Code	Description	Quantity	Price	Total	VAT%
SUPPLY					
SUPPLY					

GET A QUOTE

+356 9949 3628

tcj@mbm.com.mt

	Subtotal
	VAT
Total Quantity	Total €

Application of PU Decking - 6 mm

PU Decking is most commonly used as top floor coating specifically for the food industry.

- First we will make sure the floor is dry and clear of any machinery that can be moved to make the floor seamless;
- We will diamond grind with PCD blades to remove 100% of any loose material then we will final grind with a smooth diamond to make sure the surface is flat and dust free by vacuuming the area;
- Once satisfied with the preparation of the floor we will apply a DPM primer to help control the moisture in the floor, we will add a scatter to the primer to make a good mechanical key for the screed;
- We will then lay the PU screed at a nominal thickness of 6mm with the colour of your choice;
- The last thing to do is reinstate the mastic joints in the floor;
- We can add a 60mm high cove to the perimeter of the room.

Get in Touch




MBM

INFRASTRUCTURE

Contact us to get more info

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MBM INFRASTRUCTURE