

TECHNICAL DATA SHEET

MULTI PU FM SCREED

PAS-TDS-EPX-001

Description

HACCP Approved Antibacterial Agent

MULTI PU MD SCREED is a self levelling trowel applied polyurethane floor screed for medium to heavy duty industrial use. MULTI PU MD SCREED is highly chemical, abrasion and impact resistant, with a smooth surface for hygienic cleanliness and seamless flooring. Supplied in a variety of colours for use in environments that require durability and high performance such as industrial environments or food processing areas.

Typical Applications

MULTI PU FM SCREED can be used in food processing plants, cold rooms, canning factories, bottling plants, high foot traffic areas and environments where food safety and medium to heavy industrial use are both prerequisites. MULTI PU FM SCREED is a unique system which offers total protection in food processing areas where HACCP compliance is required.

Advantages

- Economical
- High early strength
- High abrasion resistance
- High chemical resistance
- High impact resistance
- High density
- Nonhazardous (food safe)
- Seamless
- Flow applied for rapid installation
- Low maintenance
- HACCP Compliant

Silver Ion Technology

For HACCP environments, the inclusion of Silver Ion Technology gives the polyurethane screed permanent bactericidal properties. Only included on request.



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Typical Properties

BS 8204-6	Type 7
Adhesion to Concrete	>1.5 N/mm ²
Shore D Hardness	80
Slip Resistance Dry	DRY > 60 WET > 25
Slip Resistance Wet	TRRL Pendulum Slip Test
Application Temp.	15°C to 20°C
Surface Finish	Smooth matt
Application Thickness	3-4 mm
Pot Life	15 Minutes
Use Temperature	-20°C to 90°C @4 mm
Yield	12 Litres per kit
Coverage	3m ² at 4mm thick
Time to Foot Traffic	12 Hours
Time to Wheel Traffic	24 Hours
Time to Heavy Traffic	48 Hours
Full Chemical Resist.	7 Days
Chemical resistance: REFER TO CHEMICAL CHART.	

Watch Points

- While polyurethane screeds are chemically resistant, they can still stain and a sealer coat is recommended in areas where concentrated dyes, or foods or chemicals with staining history are exposed to the screeds for long periods of time.
- A formal hygienic cleaning procedure is required to keep the surfaces hygienically clean and food safe.
- Polyurethane screeds are not UV stable and will yellow under bright lighting and sunlight.

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Application Conditions: Application temperature should be between 12°C and 20°C. Employ the use of localized cooling or heating equipment if necessary. Avoid application over hot surfaces or previously heated areas. Substrates must have a moisture content of 6% maximum and tensile strength of 1.5 N/mm² minimum.

Surface Preparation: Surfaces need to be cleaned and flattened or imperfections will show through flow applied applications. Mechanical grinding is required to remove all surface defects. Scabbling and acid etching is not recommended. If the substrate is porous or there is expected to be pin hole issues or moisture concerns, a scraper coat of MULTI PU MB is recommended as a primer. Anchor grooves are to be cut at twice the thickness of the floor finish to a maximum of 8mm. Anchor grooves are to be cut around the floor perimeter, parallel to expansion joints, around upright structures, around drains, parallel to door thresholds, and at regular 3 meter spacing across the floor surface.

Priming: Use **MULTI PU primer** to prime the floor surface, making sure not to over fill anchor grooves. Ensure even coverage using a mohair roller until the surface is completely wetted out. Allow to cure for 12 hours and if dry patches appear, a second application of primer is required. Allow to cure for a further 12 hours. If the primer is left for longer than 48 hours, the primer will need to be abraded and a further coat of primer applied to prevent pin holing of the final screed topping. If moisture is a concern, prime with **MULTI PU MB** coating at 500 µm thickness using a trowel and allow to cure for 12 hours. If no blistering or pin holing occurs, continue with the final screed topping.

Application: Shake well the resin components. In a pot mixer, premix the resin and the hardener until mixed together. Incorporate the pigment.

While mixing, add in the powder aggregate gradually until all wetted out and lump free. Then transfer the mix onto the primed surface and level to the required thickness using a steel trowel. Once level, use a spike roller to remove stubborn trowel lines and re-aerate the screed. Do not spike roll beyond initial set (5 minutes of application) or the screed will not self-level and roll marks will remain in the screed. Ensure that anchor grooves are filled completely. Allow the screed to cure for 12 hours. Protect the curing floor from damp, condensation and direct water for at least 24 hours.

Limitations: Do not apply in humidity is expected to be greater than 90% RH, or if the surface temperature is less than 3°C above the dew point. Ensure that the curing temperature never drops below 5°C, and do not apply over concrete that is less than 25 MPa compressive strength. Colour variations can occur between batches so apply sections from the same batch of resin. Touching up will always be visible and should be avoided. If colour variations occur, overcoat the entire surface with **MULTI PU COAT**. To guard against discoloration from contact with strong oxidizing agents such as halogens, seal with **MULTI UV SEALER** clear matt.

Equipment Care

All tools should be cleaned with thinners or xylene immediately after use.

Packing

Supplied in 2.9LT RESIN, 2.1LT HARDENER and 17.5KG AGGREGATE.

REVISION: R3.2