

### KWA-ZULU NATAL

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### WESTERN CAPE

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## MULTI PU HF SCREED

### 9-12 mm Polyurethane Floor Screed

#### Description

MULTI PU HF SCREED is a rake applied polyurethane floor screed for very heavy duty industrial use. Highly chemical, abrasion and impact resistant, with a textured surface for added slip resistance and exceptional resistance to thermal shock. Supplied in a variety of colours for use in environments that range from back of house to wash bays, warehousing to food processing areas.

#### Typical Applications

MULTI PU HF SCREED can be used in food processing plants, cold rooms, canning factories, bottling plants, high foot traffic areas and environments where thermal fluctuations, wet areas and very heavy industrial use are all prerequisites.

#### Advantages

- Economical
- High early strength
- High abrasion resistance
- High chemical resistance
- High impact resistance
- High density
- Nonhazardous (food safe)
- Seamless
- Non slip application
- Low maintenance
- Thermal shock resistance

#### Silver Ion Technology

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



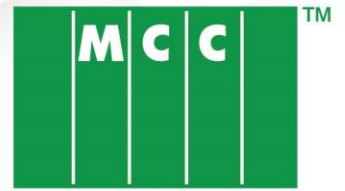
HACCP Approved Antibacterial Agent

#### Typical Properties

BS 8204-6	Type 8
Adhesion to Concrete	>1.5 N/mm <sup>2</sup>
Shore D Hardness	75
Slip Resistance Dry	>60
Slip Resistance Wet	>55
Application Temp.	15C to 25C
Surface Finish	Textured matt
Application Thickness	9-12 mm
Pot Life	15 Minutes
Use Temperature	-20C to 120C
Yield	17 Litres per kit
Coverage	2.5m <sup>2</sup> at 6mm 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 includes citric acid (fruits), vinegar (50% acetic acid), lactic acid (food and dairy), alcohols, inorganic acids, fuels, hydraulic oils, mineral oils, aromatic and aliphatic solvents, common alkalis.	

#### 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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## MULTI PU HF SCREED

### Directions for Use

**Application Conditions:** Application temperature should be between 15C and 25C. Employ the use of localized cooling or heating equipment if necessary. Try avoid applying over hot surfaces or previously heated areas. Substrates must have a moisture content of 12% maximum and tensile strength of 1.5 N/mm<sup>2</sup> minimum.

**Surface Preparation:** Surfaces need to be cleaned and flattened or imperfections will show through flow applied applications. Light grinding to remove all surface defects is recommended. 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 resin and hardener is recommended as a primer. Anchor grooves are to be cut at twice the thickness of the floor finish to a maximum of 10mm. 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:** MULTI PU HF SCREED is resin rich and will not require a primer on surfaces that are already sound and of suitable specification. If moisture is a concern, prime with MULTI PU LC 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 component to resuspend all the pigments in the liquid. In a pot mixer, premix the resin and the hardener until mixed together. 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 rake. Once level use a spike roller to remove stubborn trowel lines and re-aerate the screed. Do not spike roll beyond initial set (3-5 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 3C above the dew point. Ensure that the curing temperature never drops below 5C, 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 necessary, overcoat the entire surface with MULTI PU LC coating or MULTI PU SEALER in a similar colour.

### Equipment Care

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

### Packing

Supplied in 2.9LT RESIN, 2.1LT HARDENER and 32KG AGGREGATE.

REVISION: v2019- R3