

SOLIDWEAR HP 500

High Performance Wearing Compound

Solidwear HP 500 is a medium-set, high-performance epoxy novalac wearing compound containing graded high density ceramic fillers, providing excellent wear resistance, impact and chemical resistance, a long lasting lining to plant and equipment subject to a high degree of abrasive wear.

Contains fine crushed angular fillers for optimum packing and wear resistance.

UNIQUE PRODUCT BENEFITS

- Excellent acid (up to 50% sulphuric acid) and alkali resistance.
- Extends life of costly plant and components.
- Good low temperature cure down to 5°C.
- Excellent adhesion to metal and other surfaces under adverse conditions including damp surfaces.
- Water smoothable – lightly wetting trowel or gloved hand gives a smooth finish.
- Easy to mix and apply.
- It conforms and spreads easily into tight corners and curved surfaces.
- Can be applied to vertical and overhead surfaces and areas in which compound shapes or difficult access makes the application of other wearing materials impractical.
- Rapid cure - normally ready to use in 18 hours hours at 25°C - less if heat is applied.
- Excellent corrosion resistance.

TECHNICAL DETAILS

Compressive Strength	100 MPa	ASTM D695-54
Tensile Strength	35 MPa	ASTM D638-02
Lap Shear Strength	> 13 MPa (stainless steel)	ASTM D1002
Hardness	85	Shore D
Water Uptake (Permeability)	Nil	Karsten Test
Heat Deflection Temperature	90°C	
Chemical Resistance	Acids and alkalis, aliphatic solvents, petroleum products, sea water and distilled water	
Mix Ratio	2 : 1	
Solids Content	100%	
Pot Life @ 25°C	20 to 30 min.	
Working Time	45 min.	
Practical Cure	2 to 3 hrs	
Full Cure	18 hrs	
Colour	Red	
Coverage @ 4.5 mm	1 m ²	
Application Temperature	5 to 35°C	
Shelf Life (on storage at 25°C)	12 months	

PACKAGING

Solidwear HP 500 is supplied as a 10 kg kit.

Leading manufacturers of specialist epoxy and polyurethane flooring systems, specialised construction and corrosion protection products.

Distribution facilities nationwide

Western Cape +27 (0)21 535 4455	Eastern Cape +27 (0)41 451 3944	Gauteng +27 (0)11 822 7242	KwaZulu-Natal +27 (0)31 705 7733
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APPLICATIONS:

Any plant and equipment subject to erosion caused by abrasion from process materials.

Common areas of application are:

- feed chutes
- pipe elbows
- slurry lines
- hoppers
- chutes
- settling tanks
- cyclones
- pump casings

SUBSTRATE REQUIREMENTS

All surfaces must be clean, dry and free of rust or mill scale. Grit blasting to SA 2½ is recommended. If mechanical grinding is used, ensure that the prepared surface has a rough profile.

INSTALLATION:

Using a steel trowel or gloved hand apply compound at 4 mm to 6 mm thickness or as specified. Wipe smooth with hands, which are slightly wet with soapy water. Any mixed material will become unusable after 40 minutes.

To accelerate curing time, post cure after compound has hardened, by heating to about 40°C for 30 minutes.

HEALTH AND SAFETY

Ensure adequate ventilation in work area. Use protective clothing to avoid skin contact with uncured compound at all times. No sparks or naked flame to be permitted in the vicinity while tools and equipment are being cleaned with Epoxy Thinners or other flammable products.

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHSA No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.

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