

# SOLIDWEAR HP 101

## High Performance Epoxy Wearing Compound

Solidwear HP 101 is a high-performance, technically advanced epoxy wearing compound containing graded high alumina ceramic bead fillers up to 2 mm, in a blended epoxy resin system.

It provides a long lasting lining to plant and equipment subject to a high degree of abrasive wear in highly acidic corrosive environments. Excellent slump resistance on vertical or overhead applications. Can cure underwater.

### UNIQUE PRODUCT BENEFITS

- Excellent acid resistance > 60% Sulphuric acid. Strong acid blends typically used in mine processing.
- Cuts down time to a minimum, as most repairs are done on site.
- Extends life of costly plant and components.
- Easy to mix and apply. It conforms and spreads easily into tight corners and curved surfaces.
- Can be applied to vertical and overhead surfaces.
- Applied from 5 mm up to 20 mm.
- Water smoothable – Lightly wetting trowel or gloved hand gives a smooth finish.
- Rapid Cure - Normally ready to use in 12 hours at normal room temperature - less if heat is applied.
- Excellent adhesion to metal and other surfaces under adverse conditions including damp surfaces.
- Good low temperature cure down to 5°C.

### TECHNICAL DETAILS

Compressive Strength	100 MPa	ASTM D695-54
Tensile Strength	35 MPa	
Lap Shear	> 10 MPa	
Heat Deflection Temperature	80°C to 90°C	
Chemical Resistance	Mineral acids and alkalis, aliphatic solvents, petroleum products, seawater and distilled water.	
Components	2	
Mixing Ratio (By Mass)	8.05 kg + 0.45 kg Epoxy : Activator	
Solids Content	100%	
Pot Life (500 ml)	30 to 35 min.	
Touch Dry	1 hr	
Practical Cure	2 to 3 hrs	
Full Cure	18 hrs	
Application	Trowel or gloved hand	
Colour	Grey	
Theoretical Coverage	6 L / m <sup>2</sup> @ 6 mm	
Application Temperature	5 to 35°C	
Shelf Life	12 months	
Cleaner	Epoxy thinners	

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

Distribution facilities nationwide

Western Cape	Eastern Cape	Gauteng	KwaZulu-Natal
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## APPLICATIONS:

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

Common areas of application are:

- 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

Some of the components of this product may be hazardous during mixing and application.

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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