

# E2

## POLYWED SUPERCOAT 500

PROTECTIVE EPOXY RESIN COATING WITH CHEMICAL RESISTANT

EPOXY BONDING

Supercoat 500 is a two component, solvent free epoxy coating with outstanding mechanical and chemical properties. Suitable for use in hot and tropical climatic conditions

### USES

Supercoat 500 may only be used by experienced professionals. Chemical resistant protective layer on concrete, structural cementitious mortars, epoxy cement, epoxy resin based products and steel

- Protection of concrete surfaces / foundations below ground level
- Lining in storage tanks, manholes, intakes and silos etc.
- Anti-corrosion coating on steel in food processing plants, sewage works, farms, agricultural enterprises, chemical and pharmaceutical facilities and beverage industry

### ADVANTAGES

Suitable for direct contact with potable water

- Easy to clean, tough glossy finish Very good resistance to a wide range of chemicals and corrosive vapours
- Sewage resistant
- Good mechanical and chemical resistance
- High build
- Impervious to liquids

### PRODUCT INFORMATION

Composition	Epoxy resin & Hardener
Packaging	5 kg / 15 kg pails
Appearance / Colour	Standard
Shelf Life	12 months from date of production
Storage Conditions	Store in a dry area in original sealed packaging at temperatures between +5 °C and +30 °C. Protect from direct sunlight, heat and moisture.
Density	Mixed Resin: 1.48 kg/l(at +25 °C)
Solid Content	100 % by weight

### TECHNICAL INFORMATION

Compressive Strength	up to 75 N/mm <sup>2</sup> (28 d / +25 °C) (ASTM C579-18)
Tensile Adhesion Strength	1.2 N/mm <sup>2</sup> (failure in concrete) (BS1881 part 207)
Chemical Resistance	N/A

### APPLICATION INFORMATION

Pot Life	30 mint at temperature +30 °C
Consumption	0.3 kg/m <sup>2</sup> for a layer-thickness of 200 microns. This figure is theoretical and does not include any additional material required due to surface porosity, surface profile, variations in level and wastage etc.
Layer Thickness	Minimum two coats, each minimum 200 microns thick.
Curing Time	Fully cured 7 d (25 °C)
Waiting Time for Over coating	Min. 4 h (35 °C)

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### APPLICATION INSTRUCTION

#### SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

#### CONSIDERATIONS

- Do not apply Supercoat 500 on substrates with rising moisture.
- Freshly applied Supercoat 500 should be protected from damp, condensation and water for at least 24 hours.
- Apply on falling temperatures. If applied during rising temperatures "pin holing" may occur from rising air.
- For potable water applications, local authorities / regulations need to be followed, especially the cleaning and disinfection procedures of the installed coating.

### APPLICATION

Prior to mixing stir part A mechanically. When all of part B has been added to part A mix continuously for 3 minutes until an uniform mix has been achieved. Use a low speed electrical stirrer (300 - 400 rpm) to avoid air entrapment. To ensure proper mixing, pour material into a clean container and stir again. Apply by brush, roller or airless spray. Further coats and lamination may be applied to enhance the protective performance of the system.

### CLEANING OF TOOLS

Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.

### BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

### HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling storage and disposal of chemical products, users shall refer to the most recent MSDS containing all the details.

### LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application.



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