

## HIGH TEMPERATURE RESISTANT EPOXY RESIN

**EXCELLENT CHEMICAL RESISTANCE  
EXCELLENT TRAFFIC & ABRASION RESISTANCE  
NON-SKID  
CAN BE OVERCOATED**

### PRINCIPAL USES

Designed for use in combination with glass and Kevlar fibres for structural composites. A general purpose liquid adhesive and when mixed with graded aggregates, yields high compressive modulus grouts with exceptional creep and chemical resistance. Low viscosity, excellent wetting characteristics and quick cure.

### RESISTANCE

**Weather:** Excellent resistance. Surface will chalk.

**Temperature:** Excellent chemical and mechanical properties. Highly reactive resin achieving excellent resistance to continual exposure to 90°C (dry) and 70°C (wet).

**Acids:** Resists splash, fumes or spillage or inorganic acids up to 30% concentration, such as Hydrochloric, Sulphuric, etc.

**Alkalies:** Resists splash and spillage of Ammonia up to 10% and splash, spillage and immersion in alkalies such as Caustic Soda and Caustic Potash.

**Alcohols:** Resists splash, spillage of alcohols such as Ethanol and Butanol.

**Petroleum Products:** Resists splash, spillage or intermittent immersion in Paraffin, Jet Fuel, Diesel Oil, Petrol, etc.

**Solvents:** Not damaged by spillage of aromatic and aliphatic solvents such as Xylene, Mineral Turps and Benzine.

**Water and most Salt Solutions:** Excellent resistance to splash, spillage and immersion up to 70°C.

### SPECIFICATION

All concrete floors to be treated with Pro-Struct 788 High Temperature Resistant Epoxy Resin in accordance with manufacturers detailed instructions.

### CAUTION

Under no circumstances should Pro-Struct 105 Cleaner be mixed with any Pro-Struct Epoxy Compound as this will inhibit the curing of the material. To avoid confusion, Pro-Struct 105 Cleaner is coloured blue. Remove spots of Pro-Struct Epoxy on hands with cotton waste dipped in water. Always wash well with soap and water after using this material.

**Application Details Attached.**

See also Instruction Sheet "Handling of Epoxy Products"

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### TYPICAL PROPERTIES AT 25°C

|                                      |   |
|--------------------------------------|---|
| <b>Finish</b>                        | Aggregate / Resin                         |
| <b>Colour</b>                        | Transparent Amber                         |
| <b>Consistency</b>                   | Trowelable Mortar                         |
| <b>Volume Solids</b>                 | 100%                                      |
| <b>Theoretical Coverage Per Coat</b> | 6lt/m <sup>2</sup> at 6mm thick           |
| <b>No. of Components</b>             | 3   |
| <b>Mix Ratio By Volume</b>           | 100 : 15                                  |
| <b>Pot Life</b>                      | 15-20 Minutes                             |
| <b>Apply Over</b>                    | Primed concrete or steel                  |
| <b>Apply By</b>                      | Brush, Roller & Laminating tools          |
| <b>Curing Time</b>                   | 16-24 hours at 25°C<br>5 Days – full cure |
| <b>Thinner</b>                       | Nil                                       |
| <b>Shelf Life</b>                    | 18-24 Months                              |
| <b>Service Temperature</b>           | 90°C Dry<br>70°C Wet                      |
| <b>Application Temperature Range</b> | 10°C to 35°C                              |

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# APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

## SPECIFICATION FOR PRO-STRUCT 788 HIGH TEMPERATURE LINING

### DESCRIPTION

This specification deals with the preparation, priming and double-laminating of off-shutter internal surfaces of concrete chemical holding tanks.

### SURFACE PREPARATION

All surfaces prior to coating are to be clean, dry and sound. Prepare surfaces by high pressure water blasting (200 Bars) and allow to dry. Repair any areas that are not sound using Pro-Struct 30/35. Surfaces should show a well bonded main aggregate for good adhesion. Reprofile aggregate exposed surfaces which have been chemically attacked with Pro-Struct 526 Five Star Waterproofer.

### MIXING

Under no circumstances are the supplied kits to be split. The contents of the components in a kit are to be thoroughly mixed together before use, note being taken of the limited pot life necessitating short application times per kit.

### PRIMING AND COATING

Apply a generous primer coat of Pro-Struct 788 Resin and lay in a chopped strand fibreglass mat (300gm/m<sup>2</sup>) saturating from above with Pro-Struct 788 Resin. While still wet, apply a second layer of chopped strand fibreglass mat (300gm/m<sup>2</sup>) and saturate as above. Into wet resin, apply a surface tissue (PRT Reinforcing Tissue) again saturating same with Pro-Struct 788 Resin. Deaerate each layer with a fluted roller. When cured, sand down surface and apply a final finishing coat.

This coating system must be done as one process, wet-on-wet.

The approximate coverage of Pro-Struct 788 Resin is 2.6 litres/m<sup>2</sup> in the above described system. It is however, imperative that trial consumption figures be obtained on the given surface.

### CURING

Allow system to cure for 5 days before exposing to chemical conditions.

**CAUTION: MAY CONTAIN FLAMMABLE SOLVENTS.** KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRONIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMEN SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.



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