HYCHEM

# HYCHEM SupaFloor T

## Thixotropic, High Build, Multi-Purpose Pigmented Epoxy Coating System

## Product Description

SupaFloor T is recommended for use as a medium and heavy duty floor & wall coating for industrial and commercial applications.

## Typical Applications

- Schools, hospitals and public buildings
- Prisons
- Retail areas
- Domestic and commercial garages
- Back of house areas
- Stock & Plant rooms
- Workshops
- Pharmaceutical Industry
- Laboratories
- Food and Beverage Industry

## Features & Benefits

- Textured, high gloss finish
- A variety of anti-slip profiles are possible with the addition of aggregates to the material prior to application
- High resistance to mineral acids
- High resistance to caustic and salt solutions
- High resistance to petroleum oils
- Versatile
- Abrasion and impact resistant
- High mechanical strength
- Low odour
- Non flammable
- Cures rapidly
- Seamless
- Excellent resistance to water

## Technical Data

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| **Properties measured at** | 25°C |

## Physical Properties

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| **Hardness Shore D - 7 days** | 78 |
| **Compressive strength** | 75 MPa |

## APPLICATION GUIDELINES

### Substrate Preparation

Prior to the application of SupaFloor T, the substrate must be adequately prepared.

- The concrete substrate must be firm, clean and dry with a compressive strength of 25 MPa and a minimum surface tensile strength of 1.5 MPa.
- New concrete must be allowed to cure for a minimum of 28 days.
- Remove all surface laitance, contaminants, existing coatings, curing compounds and any weak or loose materials.
- Prepare the concrete surface by Grinding, Shot Blasting, Scarifying, Ultra High Pressure Water Jetting or Scabbling to provide the appropriate concrete surface profile (CSP) for optimum mechanical keying.
- The extent of surface preparation required is dependant upon but not limited to the thickness of the coating system to be applied. It is highly recommended surface prepation is carried out in accordance with industry standards and publications such as NACE 02203 item No. 22420 or ICRI Technical Guideline No. 03732.

### Applying

Moisture content of the concrete must be below 6%.

Hychem recommend priming most surfaces with Hyhem E100 prior to the application of SupaFloor T.

### Roller Application

- Add pigment pack to part A resin and mix thoroughly with a low speed mechanical stirrer until complete uniformity is achieved. Add part B hardener and again mix until uniform. This should be achieved in approximately 3 minutes.
- Apply the mixed product at a rate of approximately 5-6 m2 /litre/coat (flooring) and 7-8 m2 /litre/coat (vertical surfaces) over the primed surface.

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- For anti-slip flooring applications that require a more textured finish, simply add white aluminium oxide aggregate to the mix at a rate of 5-8% by volume of the total mix. Suitable grades include CA80, CA60 & CA46 which will provide R10 to R11 profiles.

Hychem SupaFloor T is a thixotropic, high build, multi-purpose, solventless epoxy coating designed to be used as either a vertical grade coating or a textured floor coating.

Off the roller Supafloor T provides a stippled/textured finish. For increased slip resistance, SupaFloor T can be used in conjuction with various aggregates including quartz, bauxite or aluminium oxide to produce surface finishes compliant with industry slip/friction requirements.

- NOTE : SupaFloor T is not recommended as a sealer for heavily broadcast, coarse surfaces in which case our regular SupaFloor product should be used due to its superior flow characteristics.
- SupaFloor T can be applied as a top coat over regular SupaFloor which has been applied as either a roller applied coating or a self smoothing finish to provide the desired textured finish.
- Epoxy solvent can be added to SupaFloor T to assist workability due to application and environmental conditions. We recommend using Xylene at a maximum rate of 7% by volume.

### Mixing ratios

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| **Part A Resin** | 5.5 kg |
| **Pigment (weight will vary with colour)** | 500ml |
| **Part B Hardener** | 2.1 kg |

### Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by HYCHEM either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not HYCHEM are responsible for carrying out procedures appropriate to a specific application.

### Customer Responsibility

The technical information and application advice given in this publication is based on the best information available at the time of print. As the information herein is of a general nature, no assumption can be made as to the product suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

### Curing conditions

To minimise an unsatisfactory cure the following indicative application conditions should be observed with respect to temperature and humidity levels.

- 21° C and less than 85% humidity
- 10° C and less than 75% humidity

## Application Information

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| **Pot life** | 20 minutes |
| **Tack free time** | 8 hours |
| **Recoat time** | 8 - 24 hours |
| **Cure time** | 24 hours - foot traffic 3 days - light mechanical traffic 7 days - full cure |

## Coverage

1 x 6.5 litre kit of SupaFloor T will cover approximately 40-45m2 as a floor coating and approximately 50-55m2 as a vertical coating for walls. These consumption rates are theoretical and may vary due to the porosity and profile of the surface being coated as well as wastage.

## Packaging

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| **SupaFloor T Neutral** | 7.6 kg kit |

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This kit will yield 6.5 Litres as a roll coat with a 500ml pigment pack

### Environmental Conditions

Temperature and the surrounding atmospheric conditions will play a part in the curing process of all resin products. Under conditions of low temperatures and high humidity the final cured surface finish can be adversely affected, potentially resulting in poor gloss retention, discoloration over time, poor overcoat ability and inter-coat adhesion. Quite often these conditions will result in the formation of a white film over the surface, often evident after contact with water. If this occurs, the existing coating will need to be abraded to completely remove the affected surface to ensure the adhesion of subsequent applications. In some cases, partial or complete re-priming may be necessary. Attention also needs to be paid to the substrate temperature, which should be at least 3-5 °C above the dew point during the curing phase. Industry standards recommend the accurate recording of environmental conditions such as substrate and air temperatures, humidity levels and dew point readings during both the application and curing processes. Full material warranties cannot be provided unless all the relevant data has been recorded accurately. If in doubt consult the HYCHEM technical department for advice.

### Safety Precautions

Wear appropriate personal protection equipment. Gloves, eye protection, mask and overalls should be used during mixing and application. Ensure there is adequate ventilation and avoid breathing the vapour. Refer to the Safety Data Sheet for this product before use.

### Shelf Life

12 months from date of manufacture, stored under shelter at 25º C in the original un-opened container.

### Chemical Resistance

Different epoxy products vary in their resistance to chemicals. Always ensure that the correct product is chosen for the service environment to be encountered. If in doubt contact your Hychem representative or the Hychem technical department for advice. Chemical spillage of acids and sanitizing agents may attack the pigments used in the coating and result in discolouration.

### Colour

SupaFloor T is an industrial flooring finish which may discolour on exposure to UV light from the sun or an artifical source. The severity of discolouration is dependant on colour choice and the level of exposure. Darker colours appear less affected. Any such discolouration has no effect on the performance of the product.

### Warranties and Disclaimers

HYCHEM warrants that this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper use and application of the product by the applicator. HYCHEM has no role in the application of the finished polymer other than to manufacture and supply its components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of the application tools, including trowelling, spray equipment etc. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by HYCHEM.

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### Legal Notes

The information, and in particular the recommendations relating to the application and end-use of HYCHEM products, are given in good faith based on HYCHEM's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with HYCHEM's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. HYCHEM reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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