



# Hycrete PU-TC<sub>(m)</sub>

Topcoat for polyurethane concrete

Hycrete PU-TC(m) is specially designed as a topcoat for Hycrete PU-SL(m) and TR flooring systems.

It can also be used as a stand alone concrete coating.  
It has excellent chemical resistance properties.

Hycrete PU-TC(m) is used to seal in the aggregate in a broadcast polyurethane cement topping. It is also used as a non-slip coating over a Hycrete PU-SL(m) smooth base.

## FEATURES & BENEFITS

- Adjustable rate of cure – Accelerator can be added for low temperature cure.
- Chemical Resistant – excellent resistance to acids and alkalis.
- Low VOC Emission – environmentally friendly.
- Low Odour – does not taint food.
- Matt Finish.
- Colour Availability – available in a range of colours.

## TYPICAL APPLICATIONS

- Food & Beverage production facilities
- Factory production floors
- Stock & Plant rooms
- Workshops

## Technical Characteristics

|   |                    |
|---|--------------------|
| Mixing ratio by weight - corresponds to packaging in kg |                    |
| A : B   | 1 : 1              |
| A : B : C   | 1 : 1 : 2          |
| Pot life @ 25 °C  | approx. 20 minutes |
| Application temperature (min. 3 °C above dew point)     | 10 to +30 °C       |
| Overcoating @ 25 °C                                     | 12 -24 hours       |
| Cure time @ 25 °C:                                      |                    |
| foot traffic  | 12 - 20 hours      |
| heavy traffic   | 2 days             |
| chemical exposure                                       | 7 days             |
| Adhesive strength                                       | > 1.5 MPa          |
| Temperature resistance                                  | -20 °C to 120 °C   |
| Hardness (Shore D)                                      | 80 (7 days)        |

| Chemical resistance |                   |                    |
|---------------------|-------------------|--------------------|
| Acids               | Acetic acid       | 20%                |
|                     | Boric acid        | 4%                 |
|                     | Chromic acid      | 10%                |
|                     | Citric acid       | 10%                |
|                     | Formic acid       | 5%                 |
|                     | Hydrochloric acid | 10%                |
|                     | Lactic acid       | 25%                |
|                     | Phosphoric acid   | 25%                |
|                     | Sulphuric acid    | 25%                |
|                     | Alkalis           | Ammonium hydroxide |
| Peroxide            |                   | 10%                |
| Potassium hydroxide |                   | 10%                |
| Sodium hydroxide    |                   | 50%                |
| Other               | Diesel            |                    |
|                     | Petrol            |                    |
|                     | Sugar solutions   |                    |

## SURFACE PREPARATION

### Concrete Coating

The concrete substrate should be firm, clean and dry. The compressive strength of the surface must be a minimum of 25 MPa and the surface tensile strength a minimum of 1.5 MPa.

New concrete is to be a minimum of 7 days old. The surface of the concrete will need to be mechanically prepared by either diamond grinding, shot blasting or scarifying. All weak and loose material, surface laitance, contaminants and coatings or curing compounds must be completely removed. It is preferred that the prepared surface has a profile to ensure both excellent chemical and mechanical adhesion.

### MIXING

- Mix components A and B together for 30 seconds. Add aggregate bag and mix until a smooth consistency without lumps is achieved, 1-2 minutes should be sufficient.

### APPLICATION GUIDELINES

Do not apply over damp or wet surfaces. Do not apply where there is water vapour transmission.

### Non-Slip Finish

- Apply to substrate and broadcast anti-slip aggregate into the wet surface and allow to cure. The size of the aggregate that is used depends on the level of slip resistance required.
- Apply a second coat of Hycrete PU-TC(m) to seal the surface. Keep in mind not to flood the surface so much as you lose the slip resistant effect of the aggregate.
- Hycrete PU-TC(m) may also be applied over either a self-levelling or broadcast Hycrete PU-SL(m) topping.

## COVERAGE

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The following information is a guide only.

Over a smooth surface the expected coverage is about 4 - 5 m<sup>2</sup>/litre. When applied over a broadcast surface the consumption will depend on the profile, however, approximately 2 m<sup>2</sup>/litre can be expected.

## SAFETY PRECAUTIONS

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Wear gloves, eye protection, masks and overalls during mixing and application.

## PACKAGING

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Hycrete PU-TC(m) is a 3 component product consisting of a resin, hardener and blended fillers.

Component breakdown:

|                  |      |
|------------------|------|
| Part A           | 1 kg |
| Part B           | 1 kg |
| Part C Aggregate | 2 kg |

The mixed product will yield approximately 2.75 litres.

## LIMITATIONS

Hycrete PU-TC(m) is an industrial flooring finish which may discolour on exposure to UV light from the sun or an artificial source. The severity of discolouration is dependant on colour choice. Any such discolouration has no effect on the performance of the product.

## SHELF LIFE

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This product has a shelf life of 12 months from date of manufacture, stored under shelter at 25°C in original un-opened container.

### NOTE: Customer responsibility

The technical information and application advice here given is based on the best information available to Hychem at the time of print. As the information herein is of a general nature, no assumption can be made as to the products 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.

Hychem reserve the right to modify the content of any technical data sheet at any time, without prior notice. It is the users responsibility to obtain the most recent and up to date issue.

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.

Due to the many different substrates and working conditions that can be experienced either during application or following installation, Hychem can provide no guarantee of an application result.

Hychem recommend the application of test samples on site for evaluation prior to any final installation.



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