



HYCHEM
EPOXY SYSTEMS

Hycrete PU-TC

Topcoat for polyurethane concrete

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

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

Hycrete PU-TC 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 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 (without AC25)

Mixing ratio by weight.	
A : B	1 : 1
A : B : C	1 : 1 : 1.25
Part D Pigment	175g
Pot life @ 25 °C	approx. 10minutes
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 Part A and pigment (and AC25 if required) together using a mechanical mixer until uniform. Add Part B and mix for a further 30 seconds. Then add Part C Aggregate and mix for approximately 90 seconds scraping down sides of mixing container and ensuring all the ingredients have been incorporated and are thoroughly mixed, with the final mix being totally homogenous. It is important to maintain continuity of mixed material on site to maintain the wet edge of the applied topping.

* AC25 Accelerator - When using AC25, it must be added and pre-mixed into the Part A before the addition of Part B. Use 10 - 15ml per kit to approximately halve the curing time.

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 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 may also be applied over either a self-levelling or broadcast Hycrete PU-SL topping.

COVERAGE

The following information is a guide only.

Over a smooth surface the expected coverage is about 4 - 5 m²/litre. When applied over a broadcast surface the consumption will depend on the profile, however, approximately 2 m²/litre can be expected.

SAFETY PRECAUTIONS

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

PACKAGING

Hycrete PU-TC is a 3 component product consisting of a resin, hardener and blended fillers. Normally supplied as a neutral product with a pigment pack.

Component breakdown:

Part A	1 kg
Part B	1 kg
Part C Aggregate	1.25 kg
Part D Pigment	175g

The mixed product will yield approximately 2.35 litres.

LIMITATIONS

Hycrete PU-TC 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

This product has a shelf life of 9 months from date of manufacture, stored away from sunlight 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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