

HYCRETE TC



Hychem TC is a pigmented, multi-component, cementitious polyurethane coating with virtually no odour and low VOC. It has excellent chemical and abrasion resistance properties. Hycrete TC is mainly used as a topcoat for the Hycrete SL or TR topping systems.

USE

Hycrete TC can be used as either a concrete primer for the various Hycrete systems, as a roll on protective coating for bare concrete or as the preferred topcoat for both the Hycrete SL and Hycrete TR polyurethane cement topping systems.

Hycrete systems are highly recommended for use within the food and beverage industries where chemical resistance to acids and alkalis is necessary as well as the need for a flooring system capable of tolerating exposure to high heat whether through production activities or cleaning procedures.

These performance characteristics make Hycrete TC the preferred hygienic and long lasting coating for these environments.

FEATURES & BENEFITS

- Adjustable speed of cure – accelerator can be added to ensure quick turnaround, even at low temperatures.
- High Abrasion Resistance – hard wearing and durable.
- Chemically Resistant – excellent resistance to acids and alkalis.
- Low VOC Emission – environmentally friendly.
- Low Odour – will not taint food.
- Matt Finish.
- Colour Availability – available in a range of colours.

TYPICAL APPLICATIONS

- Food & Beverage production facilities
- Commercial kitchens & bars
- Chemical manufacturing & storage areas
- Supermarkets, fast food outlets
- Factory production floors
- Stock & Plant rooms
- Workshops

PHYSICAL PROPERTIES (@ 25°C, 50% RH)

Pot life	15 mins
Tack free time	20 hrs
Cure time	24 hrs – trafficable 7 days – chemical exposure

* The addition of accelerator will alter these times significantly - see below.

2% accelerator - 8 hour walk on time

3% accelerator - 6 hour walk on time

4% accelerator - 5 hour walk on time

PERFORMANCE PROPERTIES

Hardness (ASTM D2240)	80 Shore D
Adhesion to concrete	concrete failure

Chemical resistance

Acids		
	Acetic acid	up to 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	5%
	Peroxide	10%
	Potassium hydroxide	10%
	Sodium hydroxide	50%
Other	Diesel	
	Petrol	
	Sugar water	

APPLICATION GUIDELINES

Surface Preparation

- Concrete substrate shall be firm, clean and dry and free of oils or other substances that may interfere with adhesion.
- Concrete substrate shall be fully waterproofed and incorporate appropriate joint design in accordance with industry practice
- Remove surface laitance, contaminants, coatings, curing compounds and all weak and loose materials.
- Prepare concrete surface by Diamond Grinding or light Captive Shot Blasting to provide the appropriate surface profile for optimum mechanical keying.

MIXING

* Note depending on colour chosen mix ratio may differ slightly.

Mix Ratio:	Part A	0.75 kg
	Part B	1.55 kg
	Water	0.54 kg
	Pigment	0.50 kg
	Aggregate	2.30 kg

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

APPLYING

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

If the temperature of substrate or materials is less than 25°C then 25 ml of accelerator should be added. If the temperature is less than 15°C then consult technical department.

Non-Slip Finish

- Apply to substrate and broadcast quartz 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 second coat of Hycrete to seal the surface. Keep in mind not to flood the surface so much as you lose the slip resistant effect of the quartz.
- Hycrete TC may also be applied over a broadcast SL.

COVERAGE

The following information is a guide only.

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

SAFETY PRECAUTIONS

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

PACKAGING

5.64 kg kit (including pigment and water).

The mixed product will yield approximately 3.8 litres in volume.

SHELF LIFE

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

Disclaimer

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.