

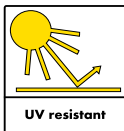
# Polypur TC 20

## UV stable, polyurethane car park deck coating

Two component high quality polyurethane car park deck coating system for both internal and external areas.

### CHARACTERISTICS

- ▶ Highly durable and UV stable
- ▶ Excellent abrasion resistance
- ▶ Good chemical resistance
- ▶ Can be applied on many different substrates and on cured epoxy systems
- ▶ Excellent surface finish with different colors
- ▶ Easy to apply



### DESCRIPTION

Polypur TC 20 is a two component high quality UV stable polyurethane car park deck coating system. The coating provides a seamless, abrasion resistant floor coating system for both internal and external areas.

### FIELDS OF APPLICATION

Polypur TC 20 is designed as a protective and wear resistant coating for new and existing trafficked areas such as:

- car park decks and ramps
- plant rooms
- trafficable flat roofs
- terraces and balconies
- industrial floors
- chemical processing areas
- factory ware houses

### APPLICATION INSTRUCTIONS

#### Surface preparation

The surface should be dry, free of any cement laitance, oil and grease, curing compound and any other contaminants, which may affect the bonding. Light mechanical scabbling, grit/captive blasting or grinding is recommended for cleaning the surface of such contaminants. New concrete surfaces should be 28 days old and the moisture content on the surface must be less than 5%. Refurbishment of existing or old floors must be done with a suitable repair mortar, in order to ensure that the bond between the old



substrate and the new flooring system is very good. Surface irregularities and blow holes shall be repaired with Polyepoxy BF (Epoxy resin based blow hole filler and skimming mortar) or Polycrrete ST (cementitious repair mortar). Alternatively an epoxy resin based scratch coat can be used when repairing larger areas (> 0.5m<sup>2</sup>). The surface should be vacuumed after carrying out the necessary cleaning for removing the dust debris left over after the cleaning process.

#### Priming

Prime the prepared surface with Polyprime PU @ 4-5m<sup>2</sup>/L. The coating is applied when the primer is dry. However, in all circumstances, the coating shall be applied within 24 hours of application of the primer. If the primer surface is left open for more than 24 hours, then a fresh coat of primer has to be re-applied. Broadcast Aggregate No. 3 on the primer whilst it is still wet @0.3 kg/m<sup>2</sup>. On ramp and turning areas, the aggregate shall be broadcasted @1.2-1.5 kg/m<sup>2</sup>. After the primer dries off brush away or vacuum out the excess aggregates.

#### Top coat

Polypur TC 20 shall be applied as the abrasion resistant top coat. This UV resistant coating is supplied in two pre-weighed packs (resin & hardener). Stir both components

seperately for a minut to remove any sediments. Slowly add the hardener (B) into the resin (A) and mix thoroughly with a slow speed drill with a proprietary paddle mixer for 2 -3 minutes, until a homogenous consistency is obtained. Work the mixer round the mixing pan to ensure it scrapes the side and bottom of the pail. Once the material is mixed immediately apply the coating with a roller or airless spray at a coverage rate of 5m<sup>2</sup>/L. If required apply a second coat at the same coverage rate and only after the first coat has dried off completely (24 hours). The coating will achieve its full mechanical properties after 7 days of cure, after which the floor can be subjected to heavy traffic.

#### NOTE

Different grades of anti-slip aggregates are available as per the degree of slip resistance required.

#### CLEANING

Clean all the tools with Polysolvent immediately after application. Hardened materials can be removed mechanically only.

#### COVERAGE

Polyprime PU	4-5 m <sup>2</sup> /L
Aggregate No. 3	0.3 kg/m <sup>2</sup> on driveways 1.2-1.5 kg/m <sup>2</sup> on ramps and turning areas
Polypur TC 20	5 m <sup>2</sup> /L/coat on smooth surface for 125 microns DFT

#### DISPOSAL

Allow the waste to cure. Seal it into a suitable container and use licensed waste disposal contractor. Consult the local authorities when disposing.

#### STORAGE & SHELF LIFE

Store all material in a cool, covered dry place. Do not expose the pails to direct sunlight and keep away from all sources of heat. In tropical climatic conditions, the product has to be stored in an airconditioned environment and protected from high humidity. The shelf life of the product is 12 months in unopened condition if stored as per the recommendations. Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.

#### HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

#### SUPPLY

Polypur TC 20	5L & 15L kit
Polyprime PU	5L & 20L kit
Polypoxy BF	3 kg kit
Polycrete ST	25kg bag
Aggregate No. 3	25kg bag
Polysolvent	5L & 20L pail

#### TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Color	grey (other colors available upon request) -	
Density, [g/cc]	1.2±0.05	ASTM D 1475
Solid content, [%]	65±2	ASTM D 2369
Abrasion resistance, [mg]	<50	ASTM D 4060
Touch dry, [hours]	4-5	-
Re-coatable, [hours]	24	-
Full cure, [days]	7	-
Chemical resistance	Dilute acids and alkalis, hydrocarbon fuels, solvents, oil, sea water.	
Application temperature, [°C]	5 to 35	-
Service temperature, [°C]	-20 to 75	-

All values given are subject to 5-10% tolerance

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.