

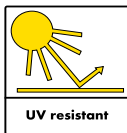
Polydeck 2000

UV stable car park coating system

Durable and seamless polyurethane based parking deck coating system for both covered and exposed areas

CHARACTERISTICS

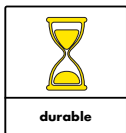
- ▶ Highly durable and abrasion resistant
- ▶ Easy to apply and available in different colors
- ▶ UV stable. Can be applied on exposed areas



UV resistant



abrasion resistant



durable

DESCRIPTION

Polydeck 2000 is a tough, durable and UV stable polyurethane based parking deck coating system. It provides a seamless, abrasion resistant floor coating system for both covered and exposed areas.

FIELDS OF APPLICATION

Polydeck 2000 is designed as a protective, wear resistant coating for new and existing trafficked areas such as:

- car park decks, ramps
- trafficable flat roofs
- plant rooms
- stadiums, Industrial floors
- helipads
- airport Hangers
- balconies and as a general protective coating of concrete from water, salt, chemical spillage, sports areas

Polydeck 2000 system consists of a Primer, anti slip aggregate (if anti slip finish is required) and a U.V. stable polyurethane resin based top coat.

Polyprime PU

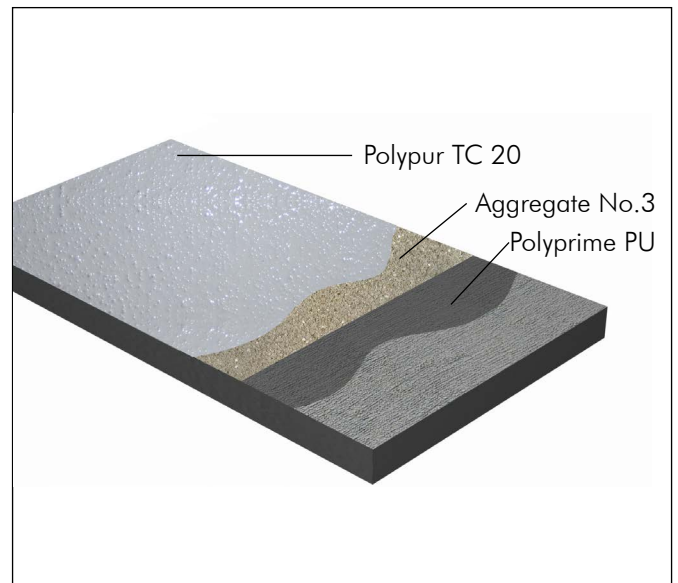
Two component solvent free epoxy primer of low viscosity.

Aggregate no. 3

Anti-slip graded quartz aggregate of particle size between 0.3-0.7mm. Used to provide a skid and abrasion resistant floor finish to heavily trafficked areas.

Polypur TC 20

Two component solvent based polyurethane coating having high abrasion resistance and UV stable properties. Polypur TC 20 has excellent resistance to chemicals, solvents, oils and provides an easily cleanable, as well as UV resistant surface.



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 Polycrete ST (cementitious repair mortar). Alternatively an epoxy resin based scratch coat can be used when repairing larger areas (> 0.5m²). The surface after carrying out the necessary cleaning shall be vacuumed for removing the dust debris left over after the cleaning process.

Priming

Mix part A & part B components of the primer and prime the prepared surface with Polyprime PU @ 4-5m²/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/m². On ramps and turning areas, the aggregate shall be broadcasted @1.2-1.5 kg/m². After the primer dries off brush away or vacuum out the excess aggregates.

Note

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

Topcoat

Polypur TC 20 shall be applied as the abrasion resistant, hard wearing top coat. The coating is supplied in two pre-weighed packs (resin & hardener) which has to be mixed at site and used. Part mixing is strictly prohibited. Take a suitable container and pour the resin (A) into it. Add the hardener (B) into the resin 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 to ensure all unmixed material is mixed properly. Apply the coating immediately after mixing. For smooth surface finish, apply the coating @5m²/L/coat to achieve a 125 micron DFT and second coat at the same rate if necessary, after the previous coat dries off completely.

COVERAGE

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

CLEANING

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

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 the 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

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

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Bond strength	Greater than the cohesive strength of good quality concrete	-
Abrasion resistance (taber abraser), [mg]	<50	ASTM D 4060
Touch dry, [hours]	4-5	-
Initial cure, [hours]	6-8	-
Full cure, [days]	7	-

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.

