



SOLDECK 3000

UV Stable Flexible Polyurethane Car Park Deck Coating System

DESCRIPTION

SOLDECK 3000 is a Multi component, polyurethane resin based, flexible protection system for car park decks with excellent abrasion resistance, waterproofing and crack bridging capabilities.

ADVANTAGES

- Flexible, tear resistant and waterproof
- Multi-purpose application
- Seamless and easy to apply
- Highly durable & abrasion resistant
- UV Stable, can be applied on exposed areas

TYPICAL USES

SOLDECK 3000 is designed as a protective, wear resistant coating for new and existing trafficked areas such as:

- Car park decks, ramps & turning areas.
- Trafficable flat roofs
- Plant rooms
- Stadiums, industrial floors
- Helipads & Airport hangers

SOLDECK 3000 system consists of a

- Primer (BAUPRIME PU)
- Flexible Wear Coat (BAUCOAT TC 40)
- Anti slip aggregate (if anti slip finish is required)

- Two component solvent based polyurethane coating having high abrasion resistance and UV stable properties (BAUCOAT TC20)

TECHNICAL PROPERTIES

(The properties shown below were obtained under laboratory conditions).

Bond Strength	Greater than the cohesive strength of good quality concrete.
Tensile Strength	>13 [N/mm ²]
Elongation @break	70 %
Tear resistance	28 N/mm
Abrasion resistance (Taber Abraser), [mg]	< 50
Shore D Hardness	65
Touch Dry	4 to 5 hours
Full Cure	7 days
Compliance	ASTM C 957

APPLICATION INSTRUCTION

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 SOLPOXY BF* (Epoxy resin based blow hole filler and skimming mortar) or SPADREP range of 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

Prime the prepared surface with BAUPRIME 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. This will act as an additional key to the bonding of the wear coat to substrate.

APPLICATION

INTERMEDIATE WEAR COAT: BAUCOAT TC 40 shall be applied as the intermediate wear coat. This coating is supplied in three pre-weighed packs (resin, hardener and filler). Take a suitable container and pour the resin (A) into it. Add the hardener (B) into the resin and mix thoroughly with a proprietary paddle mixer fitted to a slow speed drill for 2 -3 minutes, until a homogenous consistency is obtained. Slowly pour the part C (filler) into the mixing vessel and further mix for 2-3 minutes. Work the mixer round the mixing vessel to ensure it scrapes the side and bottom of the pail. Once the material is mixed properly, pour the material onto the primed surface and spread it evenly with a notched trowel. Once the material is evenly spread, use a spike roller to take out the entrapped air. Spiking shall stop as soon as the coating starts to gel. Whilst the wear coat is still wet, broadcast Aggregate No.3 @ approx 2-4 kg/m² (depending on the wear coat thickness). Aggregate broadcast is not required for smooth finish. Allow to cure for 24 hours after which excess aggregate shall be brushed away.

TOPCOAT: BAUCOAT 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.

CLEANING

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

COVERAGE

Bauprime PU	4 TO 5 m ² /Litre
Baucoat TC 40	0.5 TO 1 Litre/m ²
Aggregate No.3	2 TO 4 kg/m ²
Baucoat TC 20	5 m ² /Litre /coat for a smooth surface

PACKAGING

Bauprime PU	5 Litre & 20 Litres Kit
Baucoat TC 40	10 litre & 20 litre Kit
Aggregate No. 3	25 Kgs Bag
Baucoat TC 10	5 Litre& 15 Litres Pail

STORAGE

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 air-conditioned environment and protected from high humidity.

SHELF LIFE

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.

PRECAUTION

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles shall be worn. Treat any splashes to the skin or eyes with fresh water immediately.

There are no known health hazards associated with BAUCOAT TC 20 / TC 40 or BAUPRIME PU.

Allow any waste to cure. Seal it into a suitable container and bury in land fill as per the local regulations.

Note: Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, as the conditions of any labor involved in the application is beyond our control. BAUTECH shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of this product. It is the responsibility of the user to ensure that the product meets his particular requirements and to use it in a suitable way. Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BAUTECH representative.



BAUTECH CHEMICAL INDUSTRIES, P.O.BOX: 23054, AJMAN, UNITED ARAB EMIRATES
TEL: +9716 7441150 FAX: +9716 7441120, Email: marketing@bautechindustries.com