BAUTECH CHEMICAL INDUSTRIES

SOLFLOR WC 40

Multi component Polyurethane resin based intermediate wear coat

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DESCRIPTION

SOLFLOR WC 40 is a multi component high quality elastomeric intermediate polyurethane resin based wearing coat for car park deck coating system. SOLFLOR WC 40 is designed to provide a flexible and crack bridging waterproofing coating for highly trafficked areas.

TYPICAL USES

SOLFLOR WC 40 is designed as an intermediate wear resistant coating for heavily trafficked areas where crack bridging and waterproofing properties are required:

- Car park decks and ramps
- Plant rooms
- Trafficable flat roofs
- Terraces and balconies
- Industrial floors
- Chemical processing areas
- Factory ware houses

ADVANTAGES

- Flexible, Excellent crack bridging capability
- Resistant to water and vapor
- Good chemical resistance
- Can be applied on various substrates and also on cured epoxy coatings
- Available in different colors
- Easy to apply

TECHNICAL PROPERTIES

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

Standard Color	Grey
Density	1.6± 0.05 g/cc
Tensile Strength @ 7 days (mPa)	>13
Elongation break@ 7 days (%)	>50 %
Tear Resistance @ 7 days(N/mm)	25 N/mm
Shore D Hardness @ 7 days	65
Crack Bridging capability	>0.5mm
Initial Cure	10 to 12 hours
Full Cure	7 days
Chemical resistance	Dilute acids and alkalis, hydrocarbon fuels, solvents, oil, sea water.
Compliance	ASTM C 957
Application temperature, [°C]	5 to 35 degrees C
Service temperature, [°C] -20 to 70	-20 TO 75deg.C

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 fillerand skimming mortar) or SPADREP range (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 @4-5 m²/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. After the primer dries off, brush away or vacuum out the excess aggregates.

INTERMEDIATE WEAR COAT

SOLFLOR WC 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. Stop spiking 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). Allow to cure for 24 hours after which excess aggregates should be brushed away.

TOP COAT

An abrasion resistant top coat is recommended to be applied on top of the wear coat to protect the surface from mechanical damage. For internal covered areas, SOLFLOR TC 10 (polyurethane resin based coating) and for external exposed areas, SOLFLOR TC 20 (UV stable polyurethane coating) shall be applied as the abrasion resistant, hard wearing top coat. Allow the coated system to cure for 7 days, after which it can be subjected to heavy traffic.

COVERAGE

Bauprime PU	4 to 5 m²/Litre
Aggregate	0.3 kg/m² as bonding key on primer 2-4 kg/m² on PU wear coat
SOLFLOR TC 10	5m²/l/Coat
SOLFLOR TC 20	5m²/l/coat
SOLFLOR WC 40	0.50-1.0/m²/coat

PACKAGING: 4 LITRES KITS.

SOLFLOR WC 40	10 Litre & 20 litre KIT
BAUPRIME PU	5 Ltrs, 20 Ltrs Kit
Aggregate	25 Kgs Bag
SOLFLOR TC 10	5 Ltrs & 15 Ltrs pails
SOLFLOR TC 20	5 Ltrs & 15 Ltrs kit

STORAGE

Store out of direct sunlight, clear of the ground on pallets. Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air - conditioned environment (<25ºC).

SHELF LIFE

Shelf life is 12 months when stored as above.

PRECAUTIONS

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 SOLFLOR WC 40

Clean all the tools with water after use. Hardened materials can be removed mechanically only. Allow the waste to cure. Seal it into a suitable container and bury in landfill as per the local regulations.

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