

CAT. NO. FLR-16-2011

# POXILON - DECK

## Traffic Deck Coating System

**POXILON-DECK** is a high-build, solvent-free, two-component deck coating based on epoxy system. It is designed to protect concrete from vehicular and pedestrian traffic abrasion and incorporates non skid aggregates to enhance anti slip properties. It is a tough, wear resistant system that possess resistance to chemical spillages common to vehicular traffic.

### ADVANTAGES

- Waterproof
- Crack-bridging feature
- Excellent abrasion resistance
- Easily applied two-component system
- Semi-gloss, profiled finish
- Resistant to spillages of: Gasoline, Diesel Oil, Grease, Lubricants, Butyl Alcohol, Battery Fluid, Brake Fluid, Hydraulic Oil, etc. (Chemical resistance chart available upon request).
- Available in standard grey, yellow, red, blue (ISOFLEX PU).

### USES

**POXILON-DECK** is used to protect traffic bearing concrete decks or floors against abrasion and intrusion from detrimental chemical contaminants. Typical applications include but not limited to:

- Traffic Decks
- Car Park
- Walkways
- Auto repair bays
- Maintenance areas
- Storage
- Warehouses

### TYPICAL PROPERTIES

- |   |  |
|---|--|
| • Solid Content   | 100%                                       |
| • Abrasion Resistance, Taber (Milligram loss, 1000 cycles, CS-17) | less than 50 mg.                           |
| • Tensile Strength at 7 days (ASTM D412)                          | 25 N/ Sq.mm                                |
| • Adhesion to concrete (Primed)                                   | greater than cohesive strength of concrete |
| • Pot life at 45/35/25 Celsius                                    | 15/25/45 minutes.                          |
| • Touch dry at 35/25 Celsius                                      | 4/6 Hours                                  |
| • Maximum Overcoat time   | 36 Hours                                   |
| • Full cure at 35/25 Celsius                                      | 5/7 days                                   |
| • Water absorption (ASTM C413)                                    | Less than 0.2%                             |

### DIRECTIONS FOR USE

### SURFACE PREPARATION

**New concrete** should be at least 28 days old and cured using water only (combination of wet burlap and polyethylene sheet). If curing compounds are required, it must be removed by mechanical means prior to coating. Surface should

be sloped to drains. Surface should be finished smooth with a steel trowel followed by a fine hair broom finish. Surface should be level and free from ridges or fins. Concrete poured over precast should have control joints placed directly over the joints in the precast. **Old Concrete** must be structurally sound, free from oil, grease, curing compounds, sealers, coatings, etc. Static cracks greater than 2mm should be routed and filled with **POXITHANE 6000**. Grind high spots, fill voids, and repair spalled areas. Apply a detail coat of **POXILON - DECK** (150 x 150mm x 200 microns thick) over hairline cracks and control joints. Decks must be cleaned using light grit blasting, water blast, etc. prior to applying primer. Surface must be dry and free from dust, dirt and other foreign matters.

#### **PRIMING**

Old and new surface must be primed and sealed with **ISOPRIME 30-S** applied at the rate of 6 Sq. Meters per liter. Mix the two components together by manual stirring for 3-5 minutes. Apply primer onto the concrete using a short-haired nap roller. Allow to dry until tack free. **POXILON - DECK** should be applied immediately over the primed concrete within 24 hours.

#### **COATING**

Combine the two components (Parts A & B) of **POXILON - DECK** and mix using a slow speed drill fitted with a spiral head. Mix for at least 2 minutes. Apply base coat at the rate of 2.5 Sq. meters per liter. At this rate, theoretical thickness of the coating is 400 microns. Pour the coating from the container directly onto the deck. Use a squeegee to spread the coating starting from the wall going inwards. Standing over the fresh coating with spiked shoes, roll the coating using a spiked roller. Occasionally, check the thickness using a wet film thickness gauge. After spreading the coating and while still wet, broadcast S2 aggregate over the coating. Totally saturate the coating with the aggregate (use approximately 1.8 Kilogram per Sq. meter). Allow coating to cure for at least 12 hours then, remove excess aggregate using fine-bristled broom or vacuum. Apply first coat of **ISOFLEX PU** top coat at the rate of 3 – 3.5 Sq. Meter per liter. Allow to dry for at least 8 hours prior to applying the second final coat.

#### **CLEANING**

While still wet, **POXILON - DECK** can be removed from tools using **ISOKLEEN**.

#### **SHELF LIFE**

Twelve months from date of manufacture stored in original container under warehouse condition.

#### **PACKING/ COVERAGE**

**POXILON - DECK** is available in 4.5 liter and 18 liter pack (Parts A & B). Theoretical coverage is 2.5 sq. meters per liter (Base coat) and 3 - 3.5 sq. meters per liter (Top coat). Total nominal system thickness is 2mm.

#### **HEALTH/ SAFETY**

Epoxy resins and hardener may cause eye and skin irritation. Users are advised to wear protection when handling (e.g. coverall, eye goggles, rubber hand gloves etc.). If accidentally spilled on the skin, wash immediately with soap and water. If splashed in to the eyes, flush immediately with plenty of water and consult a physician. Refer to MSDS for further information.

#### **LIMITATIONS**

- Do not apply coating if relative humidity exceeds 95% or if the substrate temperature is within 3<sup>0</sup> Celsius of dew point.
- Cure times may be faster than listed when temperature and or humidity are high. It is advisable to store the components in an air-conditioned environment.
- Surface may discolor or stain under tires due to tire plasticizer migration. ACI cannot assume responsibility for stains due to organic exposures including stains deposited by tires.
- In general, coatings must not span over moving/ expansion joints.
- This product has a limited pot life. Do not dip roller out of the supplied container, pour it directly onto the substrate.

- Coating application is the responsibility of the user. Site visits by ACI personnel are for making recommendations only and does not imply supervisory or quality control obligation.
- This product must be applied by EXPERIENCED APPLICATORS ONLY.
- Once mixed, the coating releases exothermic heat. This is normal. Handle the container with gloved hands.

#### AUXILLIARY

- S2 Aggregate is packed in 25 kg per bag
- ISOKLEEN is packed in 5 and 20 Liter can
- ISOFLEX PU is packed in 4.5 liter can

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Technical information, data are to be considered as typical values and not sales specification. Actual measured values may vary due to factors beyond our control. Indications concerning function and application of the products are empirical. Although the information is believed to be accurate, there is no warranty by ISOLA. None of the recommendations becomes part of the warranted quality of the products. Due to the fact that the conditions of individual use are beyond ISOLA's direct and continuous control, ISOLA disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential

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