

CAT. NO. FLR-09-2011

POXILON

High Build Epoxy Coating

POXILON is a solvent free, two-component high build colored coating based on epoxy system. It is designed to provide concrete floor surface for excellent resistance to abrasion and protection against chemicals. These superior properties are further enhanced by the availability of a wide range of colors for aesthetic function.

ADVANTAGES

- Excellent abrasion resistance from foot or wheeled traffic.
- Hygienic- provides a jointless, glossy, smooth surface, easy to clean.
- Anti slip - by incorporating aggregates on the surface, provides anti slip properties.
- Aesthetics - available in various pigmented shades.
- Suitable for industrial or commercial floor applications.
- Excellent resistance and broad range of chemical spillages.
- Resistant to mineral oils, lubricants, greases, dilute acids and alkalies, etc. (chemical resistance chart available upon request).
- Does not taint food stuff.

USES

POXILON is used for coating concrete floor surfaces subject to abrasion and chemical spillages. Typical floor surfaces that can be applied with **POXILON** include but not limited to the following:

- Dairies
- Chemical Plants
- Manufacturing plants
- Food processing plants
- Auto repair bays
- Car assembly
- Aisle ways and docks
- Warehouses
- Electronic assembly
- Clean rooms
- Pharmaceutical Industries
- Aircraft hangars

TYPICAL PROPERTIES

- Solid Content.....100%
- Abrasion Resistance, Taber (milligram loss, 1000 cycles, CS-17)..... less than 60 mg.
- Compressive strength (ASTM C579) at 7 days.....75 N/Sq. mm
- Flexural Strength at 7 days (ASTM C580 Mod.)..... 42 N/Sq. mm
- Tensile Strength at 7 days (ASTM D412).....22 N/ Sq.mm
- Adhesion to concrete..... greater than cohesive strength of concrete
- Pot life at 45/35/25° Celsius..... 25/45/60
- Touch dry at 35/25 C..... 10/12 hours
- Maximum Overcoat time 36 hours
- Full cure at 35/25° C.....5/7 Days
- Mixed Density at 25° C.....1.56
- Water absorption (ASTM C413)..... Less than 0.2%

- Recommended application thickness, per coat200 to 300 microns
- Total number of coats..... 1 to 2 coats
- Thickness range.... 200 to 600 microns
- Colorstandard grey (other colors available upon request)

DIRECTIONS FOR USE

SURFACE PREPARATION

The long term durability of any coating depends on the adhesion between the coating and substrate. Therefore, it is very important to prepare the surface correctly. **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 used, it must be removed by mechanical means prior to coating. Surface should be sloped to drains. Surface should be smooth finish with a steel trowel followed by a fine hair broom finish. Surface should be level and free from ridges or fins. **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** (150 x 150mm x 200 microns thick) over hairline cracks and control joints. Surface 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

On **New Concrete**, **POXILON** does not require a primer. **Old Concrete** should be primed/ 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 using a short-haired nap roller. Allow to dry until tack free. **POXILON** should be applied immediately over the primed concrete within 24 hours.

COATING

Mix the two components (Parts A & B) of **POXILON** using a slow speed drill fitted with a spiral head. Mix for at least 2 minutes. Pour the coating directly from the mixing container onto the concrete. Use a squeegee to spread the coating. Soak up excess coating using a short-haired roller and distribute to required thickness. For **smooth finish**, typical application rate of 3.3 to 5 Sq. Meters per liter (per coat) will yield a theoretical thickness of 200-300 microns.

For **Slip resistant finish**, apply base coat at the rate of 3.3 Sq. Meters per liter (300 microns theoretical). Immediately broadcast the anti-slip aggregate over the fresh coating (Note: the aggregate can be broadcasted in a light random dressing or to full saturation if so desired. The choice of aggregate size will also determine the finished profile. As a guide, aggregate usage range from 0.4 to 2 kilograms per Sq. meter). Allow coating to cure for at least 12 hours, then remove excess aggregate using fine bristled broom or vacuum. Apply top coat to completely cover the aggregates (Note: Depending on size and distribution of the aggregate, quantity of top coat may be more than the base coat). Finally allow top coat to cure completely.

CLEANING

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

SHELF LIFE

Twelve months from date of manufacture stored in original container below 35⁰ Celsius.

PACKING/ COVERAGE

POXILON is packed in 4.5 liter Kit (Parts A & B) Theoretical coverages at various thicknesses are given below for guidance:

- 200 microns22.5 Sq. Meters per Kit
- 300 microns15 Sq. Meters per Kit
- 400 microns11.25 Sq. Meters per Kit
- 600 microns7.5 Sq. meters per Kit

LIMITATIONS

- Do not apply coating if relative humidity exceeds 95% or if the substrate temperature is within 3⁰ Celsius of dew point.
- Cure times may be faster than listed when temperature and or humidity are high. It is advisable to condition/ 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 but 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.
- Due to differential absorption of the substrate, some coated sections may appear dull. Multiple coats or a primer / seal coat prior to coating is always recommended.

HEALTH/ SAFETY

Epoxy resins and hardener may cause eye and skin irritation. Users are advised to wear protective measures, 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 into the eyes, flush immediately with plenty of water and consult a physician. Refer to MSDS for further information.

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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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