

CAT. No. PRCO-02-2103

POXILON 105*

Moisture – Insensitive Epoxy Coating

(*Formerly known as POXILON 100)

POXILON 105 is 100% solids, solvent free, high build epoxy system especially formulated to provide excellent chemical and abrasion resistance. **POXILON 105** is moisture insensitive and can be applied over damp substrate. It is suitable for protection of concrete and steel both above and below water and generally in areas around a marine environment.

ADVANTAGES

- Moisture insensitive can be applied on damp substrate.
- Excellent resistance to raw sewage and sea water.
- High build, semi-gloss finish.
- Excellent abrasion and chemical resistance.

USES

- Marine-maintenance coating in or near salt water including bilges, pump intakes, ballast tanks, structural steel, splash/ tidal zones, concrete foundation, etc.
- Industrial – steel culverts, water works and sewage, swimming pool, decks, steel pipes etc.
- Waterproof

TYPICAL PROPERTIES

- Specific Gravity @25/25 degrees Celsius : 1.5 ± 0.02
- Solid content : 100%, solvent free
- Pot life @35/25 Degree Celsius : 25 - 45 minutes
- Touch Dry @35/25 Degree Celsius : 6 - 8 hours
- Re-coat interval : 16 – 48 hours
- Full cure : 7 days
- Recommended coating thickness (WFT/DFT) : 200 microns per coat (two coats minimum)
- Chemical Resistance : Resistant to dilute acids, alkalis, chlorinated/ sewage water, etc
(Please refer to separate chemical resistance chart)

DIRECTIONS FOR USE

SURFACE PREPARATION

Substrate must be sound, clean, preferably dry and free from rust, coatings, sealers, curing compounds, dust oil/grease and other foreign matters. New concrete should be at least 28 day old.

- Blow holes : Fill with ISOPOX WP (Epoxy putty)
- Oils/Grease : Remove using Chemical Degreaser
- Steel : Grit blast to near white standard SA 2½

PRIMING

Priming is not necessarily required for new concrete substrate. Laitance must be removed by grit blasting or pressurized water jet. For old, porous concrete substrate, prime the substrate first using ISOPRIME 30-S. Similarly, if coating has to be deferred for some time, apply ISOPRIME 30-S on the steel substrate immediately and/ or before one (1) hour elapsed time after grit blasting. Allow primer to dry before applying **POXILON 105**.

MIXING

POXILON 105 comes in two, pre-weighed containers. Stir each individual components first, then transfer the contents of Part B (Hardener) into the Part A (Resin) container. Mix using an electric drill fitted with a paddle for 3-5 minutes until coating is streak-free. After mixing, transfer to a shallow paint tray and apply immediately within the indicated pot life.

COATING

Apply **POXILON 105** onto the substrate using a nap roller or paint brush at the rate of 3.0 square meters per kilogram per coat. Allow first coat to dry before applying succeeding coats at the same theoretical spreading rate. Any material left unused after the pot life has expired should not be used.

CLEANING

POXILON 105 can be cleaned-off from tools while still wet using ISOKLEEN.

COLOR / SHELF LIFE

POXILON 105 is available in standard grey color. Shelf life is twelve (12) months when stored in original container in a covered room below 30 degrees Celsius ambient temperature.

HEALTH & SAFETY

Epoxy resins and hardener may cause skin irritation. Users are advised to wear protective coveralls, eye goggles and rubber hand gloves. When accidentally spilled on skin, wash immediately with water and soap. For other safety details, refer to material safety data sheets.

PACKING / COVERAGE

POXILON 105 is packed in 7 Kg kit (4.5 liters) and will theoretically cover 21 square meters at 200 microns.

NOTES

- It should be noted that epoxy coatings in general are not UV-resistant. They tend to chalk, yellow and become brittle in the long term when applied externally exposed to the elements. As a protection against UV exposure, a UV-resistant polyurethane coating such as **ISOFLEX PU-TC** is recommended as top coat.
- Low ambient temperature and high humidity may result in white bloom on the surface. This should not be a cause for concern since performance is not affected.

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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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