

POXY COAT DWT



We Create Better Future

Solvent free Epoxy protective coating for Concrete and Metal

Description:

POXY COAT DWT is a two components solvent free epoxy system consisting of a base resin, and hardener. It Adheres perfectly to a variety of substrates like: concrete, metal, wood, stoneware, etc. Once cured the product transforms to an anti-dust, anti-bacteria, chemical resistant continuous Nontoxic membrane. The applied coating is characterized excellent abrasive resistance and mechanical strength.

Advantages:

- Solvent free and odorless
- Excellent resistance to a wide range of chemicals
- Excellent anti-bacterial
- High mechanical strength, with excellent abrasion resistance
- Excellent adhesion to the substrate. Bonding strength is greater than cohesive strength of concrete
- Heavy duty protective coating for concrete and steel.
- Internal protective lining for potable water concrete or steel tanks.

Uses:

Epoxy Coat is designed for internal application

- POXY COAT DWT is used as a resistant coating against chemicals and as an abrasion protective covering for floors.
- It is suitable for the preparation and decoration of Interior floors.
- Approved for use in contact with potable water.
- Non-toxic.
- Exhibits good mechanical properties.

Surface Preparations:

All surfaces should be sound, clean, dry and free from loose and flaking material, efflorescence, laitance, curing compounds, dirt, oil and grease. Suitable preparation using mechanical methods like grinding or blasting in order to provide a suitable clean surface is strongly recommended. All necessary repairs should be made prior to application by using BUILDING CONCRETE REPAIR PREDUTY. Highly porous concrete supports or concrete containing micro-silica must be treated with BUILDA POXY.

New concrete floors should have been allowed to cure for at least 28 days in order to allow all shrinkage movement to take place before applying the floor coating.

Metal surfaces must be perfectly cleaned up to the white metal by sand blasting, then treated with one coat of BUILDA POXY before the oxidation process begins again.

Instructions for Use:

- POXY COAT DWT Non-Toxic is composed of two components that must be mixed at the moment of use. The entire contents of the hardener Pack (Component B) should be added to the base first (Component A) and mix together for two minutes with a drill at low number of turns (200-300 RPM) till obtaining a homogenous mix.
- Before applying the second coat make sure that the first one is completely dry.
- Application should not be carried out, when there is standing or running water.
- POXY COAT DWT is not colour stable when exposed to direct sun light nor when in contact with some chemicals. However, this colour change does not affect the performance of the coating.

Standard Compliance:

POXY COAT DWT conforms to:

- ASTM D 580, C501, D4060, D4541
- BS 6319, PART 3 & PART 7,

Technical Data:

Appearance:

fluid coating

Color:

Blue, Dark Blue

Tensile strength:

BS6319-7 ≥ 28MPa @ 7days

Compressive strength:

BS6319-2 ≥ 85MPa @ 7days

Flexural strength:

ASTM-D580 ≥ 33MPa @ 7days

POXY COAT DWT



We Create Better Future

Bond strength:

C25/30 concrete ASTM D4541 \geq 2.5MPa @ 7days

Abrasion Resistance:

68 mg, 1000 cycles
ASTM D4060

Density:

1.6 Kg / Lt. \pm 0.1

Pot-life time at 23°C:

100 mins

Light foot traffic at 23°C:

24 hours

Open to vehicular traffic at 23°C:

48 hours
Full cure @25 °C 7days

Heat resistance:

-5°C to +80°C

Consumption:

0.35kg/ m² @ 200microns

Packaging:

10 kg, 15 kg and 20 kg set.

Storage:

Keep in tightly closed containers and in sheltered and dry place with a temperature between 5°C and 35°C. In these conditions it maintains its characteristics unchanged for 12 months.

Chemical Resistance:

Material	Concentration	Resistance
Lactic Acid	10%	Excellent

Citric Acid	10%	Excellent
Hydrochloric Acid	30%	Excellent
Sodium Hydroxide	40%	Excellent
Butanol	-	Excellent
Crude Oil	-	Excellent
Nitric Acid	10%	Excellent
Sulphuric Acid	30%	Excellent
Mineral Oil	10%	Excellent
Ammonia	10%	Excellent
Sea Water / Jet Fuel		Excellent

The above results are according to tests performed to ASTM D 543 Standards for 7 days at 23°C.

Limitations:

- All tools must be cleaned with Builda-thinner before hardening.
- POXY COAT DWT should not be applied onto surfaces likely to suffer from rising dampness or humidity RH > 70%.
- POXY COAT DWT should not be applied at temperature below 5°C.
- POXY COAT DWT should not be applied at asphalt floors or PVC tiles.

Health & Safety:

Avoid contact with eyes and skin by using gloves and goggles. In case of contact with eyes, clean with plenty of clean water and seek medical advice immediately. Ensure adequate ventilation at working place.