Quality for Professionals

BITU PURE B

BITU COAT EP400

NON-TOXIC CHEMICAL RESISTANT SOLVENT FREE EPOXY TANK COATING

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High Build Solvent -Free Tank Coating

PRODUCT DESCRIPTION

BITU COAT EP400 is a two-component, solvent-free, non-toxic coating formulated from epoxy resin. This product is engineered to exhibit exceptional resistance to a wide range of industrial chemicals. It offers significant abrasion resistance and provides waterproofing capabilities for both concrete and metal surfaces. **BITU COAT EP400** is particularly suitable for lining water reservoirs, tanks, and pipes, and is safe for use in potable water applications. It is offered in two distinct colors, white and blue, facilitating quality control by enabling the application of two coats in contrasting shades.

USES:

- The lining of facilities utilized for potable water and food processing, such as storage areas and piping networks.
- The protective lining of tanks is used for the storage of petroleum and petrochemical substances.
- Serving as a protective layer for water tanks, piping systems, reservoirs, marine infrastructures, oil fields, refineries, tunnels, and other related facilities.

FEATURES:

- Easy to apply with brush, roller or spray.
- High build coating.
- High chemical and abrasion resistance.
- Cost effective primer free coating.
- Provides long-term corrosion protection.
- Anti-fungus and hygienic coating.

PACKAGING:

Packaging: 15 Kg Set (A+B)

COVERAGE:

Approximate coverage

COVERAGE*	THICKNESS
Approx.3.0-3.5 m^2/Kg	@ 200–250-micron DFT

SHELF LIFE:

Minimum 12 months when unopened and stored in well controlled area (5 to 40 °C)

STANDARD COMPLIANCE:

BS 6920-2.1 – Water Quality Test

TECHNICAL DATA:

Color	Blue & White
Solid Content	100%
Mix Density Kg/Ltr @ 25 °C	*1.65±0.2*
Pot Life (ASTM D 2471) 25 °C	60-70 min
Touch Dry (ASTM D2471) 25 °C	~ 7-10 hours
Min overcoating time	12-24 hours
Full Cure time days @ 25 °C	7 days
Tensile Strength	30 Mpa
Flexural Strength	35.2 Mpa
Shore D Hardness	D/81/1
Abrasion Resistance	21.8 mg
Water Absorption- 24 Hr Dip	0.01%(No Surface Damage)
Adhesion to Concrete (ASTM D4541)	>2.7 Mpa @ 7 days Concrete failure

CHEMICAL RESISTIVITY.

CHEMICAL NAME	CONCENTRATION	RESISTANCE
Hydrochloric Acid	33%	Good
Nitric Acid	20%	Good
Chlorine	------	Excellent
Acetic Acid	20%	Poor
Sodium Hydroxide	------	Excellent
Benzene & Kerosene	------	Excellent
Ammonia	20%	Excellent
Lactic Acid	20%	Excellent
Phosphoric Acid	20%	Excellent
Sulphuric Acid	50%	Good

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INSTRUCTIONS FOR USE

CONCRETE SUBSTRATE:

Freshly poured concrete must be allowed to be cured until the shrinkage and moisture movement are minimized. The surface should exhibit an open, porous, and textured quality, with all curing compounds and sealers eliminated. It is essential that the surface is clean, dry, and devoid of grease, dust, and any other contaminants.
Common methods for preparing concrete include sandblasting, scarifying, acid etching, water jetting, grinding, and wire brushing. The final cleaning step requires the thorough removal of all residues through vacuum cleaning. Any standing water must be eliminated, ensuring that the surface is entirely dry. Any cracks and holes should be filled and repaired with **Epoxy Putty.**

STEEL SURFACE:

All surfaces must undergo grit blasting to comply with the standards set forth in BS 4232. It is essential that newly cleaned steel is coated promptly to prevent the development of rust or scale.

MIXING:

BITU COAT EP400 is provided in pre-measured packages that are ready for immediate use on-site. It is imperative that these components are not partially mixed, as doing so will compromise both the performance and aesthetic quality of the final flooring. Mixing should be performed using either a forced action mixer or a heavy-duty, slow-speed drill equipped with a specialized mixing paddle. The components must be combined in an appropriately sized mixing container. Begin by stirring the base separately.
The entire contents of the smaller can, which contains the hardener, should be added to the base container, and the mixture must be blended for a minimum of one minute using a mechanical mixer at a slow or medium speed. Subsequently, introduce component C while continuing to mix for an additional minute. Inadequate mixing may result in color discrepancies.

APPLICATION:

Once the material is mixed, it is crucial to apply it immediately with a brush, roller, or spray to maintain a continuous and uniform thickness. To ensure adequate protection, a minimum of two coats should be applied, allowing for a drying period of no less than 12 hours between each coat at a temperature of 25°C.

CLEANING:

All tools and equipment should be cleaned immediately with industrial type solvent after use with **BITU COAT EP400**. Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations. Dried material can only be removed mechanically.

HEALTH & SAFETY:

BITU COAT EP400 contains resins which may cause sensitization when it comes in contact with skin. Contact with skin and eyes and inhalation of vapor shall be avoided. Use of suitable protective clothing, gloves and eye/face protection is recommended. Barrier creams provide additional skin protection.
Should accidental skin contact occur, it shall be removed immediately with a resin removing cream, followed by soap and water. Solvent should not be used. In case of contact with eyes, immediate rinsing with plenty of clean water is suggested and medical attention shall be sought immediately - Vomiting should not be induced.

DISCLAIMER:

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's representative.