Green Build Egypt
Experience and Innovation

ULTRAPOXY HCN

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Solvent free, Epoxy Novolac Resin Based, Coating for High Chemical Resistance

Technical Specifications

- **Density : 1.5 gm/cc.**
- **Solid Content: 100 %.**
- **Pot Life: 40 min @ 20° C.**
- **Touch Dry Time: 6-8 Hours.**
- **Second Coat: 24 hours.**
- **Compressive Strength: 75 N/mm².**
- **Flexural Strength: 16 N/mm².**
- **Tensile Strength: 12 N/mm².**
- **Bond Strength: 4 N/mm².**
- **Abrasion Resistance: 70 mg/1000 cycles.**
- **Initial Hardness: 24 hours.**
- **Full Cure: 7 days.**
- **Shore D Hardness: 80.**

Application and Rates

- **High application rate; 4-5 m²/ kg. according to the roughness and nature of metal surface.**

- UltraPoxy HCN supplied in two-packs plastic packs weighing 5 Kg or 20 Kg.

- Applied by brush roller or preferably by spraying machine.

Product Handling and Storage

- **Store all material in a cool, covered dry place. Do not expose the pails to direct sunlight and keep away from all sources of heat. In tropical climatic conditions, the product has to be stored in an air- conditioned environment and protected from high humidity.**
- **The shelf life of the product is 12 months in unopened condition if stored as per the recommendations. Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.**



UltraPoxy HCN , the Features:

- High performance epoxy **NOVOLAC** coating for various types of protection against high chemicals concentrations exposure, It provides high abrasion and chemical resistance.

- It resists sulphuric acid up to 95 % conc., high alkaline chemicals like ammonium nitrate, and sodium hydroxide.

-It is 100 % solid content, no VOC materials added.

-In some cases product performance should be confirmed in specific chemical environment prior to use.

-Suitable for application on vertical , horizontal & over head substrates in aggressive chemical environments.

-It is **suitable** for high temperature areas where the temp. exceeds 100° C.

- Could be applied on all surfaces, and adheres very well to all surfaces, including metals.

Applications

- **Chemical factories production areas subjected to spillage of high concentration chemicals .**
- **Hot dip galvanic factories processing and storage areas.**
- **Power stations and battery production factories.**
- **could be applied on steel beams in high chemical concentration evaporation areas.**
- **UltraPoxy HCN is not suitable for areas where the temperature exceeding 100° C.**

Health and Safety

As with all construction chemical products, caution should always be exercised.

Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

Application Procedure:

Surface preparation: Proper care should be taken while executing it. The surface should be dry, free of any old paint, oil and grease, and any other contaminants, which may affect the bonding between epoxy coat and the metal surface .

Light mechanical scrapping, grit/captive blasting or grinding is recommended for cleaning the surface of such contaminants.

Priming: on most steel surfaces priming with **UltraPoxy ZR** or **UltraPoxy SCE** is required.

-In case of concrete applications **UltraPoxy Primer** is used as a primer.

Mixing Mix part A (resin) separately for 1 minute using a slow speed drill fitted with a paddle. Then add Part B into Part A and mix thoroughly for 2 – 3 minutes to achieve uniform consistency. Apply immediately after mixing.



Application **UltraPoxy HCN** has to be applied and spread evenly on the surface with suitable application. The coating may be applied also by airless spray to get a higher application rate and evenly surface.

Cleaning Clean all tools & equipments with suitable solvent immediately after use. Hardened materials can be removed mechanically only.

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