

CIRCULAR NO 6

Subject – Epoxy Coating For Exterior Purpose

Dear Valued Customers,

Date: 20/10/2020

Ref No: FAL-OGC-20-129

Epoxy is an adhesive, paint, plastic, or other material that is created as a polymer of epoxides. The term "Epoxy" derived from Epoxide which mean an organic compound whose molecule contains a three-membered ring involving an oxygen atom and two carbon atoms. The strain of the three-membered ring makes an epoxide much more reactive than a typical acyclic ether. Epoxy coating is excellent choice because of the following reasons.

- Enhance the Durability of Bridge Structure
- Excellent Adhesion Properties with concrete and Steel
- Excellent Water Repellency
- High Compressive Strength
- High Value of Flexural Strength
- Highly Resistant to Abrasion for flooring

However, epoxies compounds especially having aromatic rings (DGEBA) may lose its durability if exposed to high UV radiations. UV radiations are not only harmful for the skin but also harmful to polymers, a phenomenon known as photo degradation is initiated which affects the physical, mechanical and chemical properties of polymers. UV light of sunlight forms free radicals on the surface of polymer-based materials, these radicals are extremely active in attacking the polymeric structures. The energy of UV light is usually higher than the chemical bonds strength e.g., C-C, O-O, H-O, and C-N in polymers. Even though certain UV absorbers have been introduced but in the last decades but their effectiveness with ageing is still under the surveillance.

Considering above pros and cons of Epoxy coating, we have decided to arrange the technical webinar on Monday 26th of October 2020@ 1130hrs. Please confirm your presence.

Thanking you,

Sincerely,


Sohail Zafar

Technical Director
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- Testing of Tile Adhesive, Sealant, Mortar, Plaster, Coatings, Epoxies
- NDT Testing of Concrete with most advanced instrument.
- Scanning of Concrete up to 2.0m depth.
- Sub Surface Exploration up to 150m depth.
- Energy Saving Calculations
- Structural Investigations