



Epoxycote SF

Solvent free epoxy coating

TECHNICAL DATA SHEET

DESCRIPTION

Epoxycote SF is a solvent free pigmented two component system based on liquid epoxy resin with a amine hardener.

USE

Epoxycote SF is a coating system for cement based surfaces such as concrete , plaster and also for iron and steel. The main fields of application are floor and wall surfaces, which are subjected to normal mechanical loads and aggressive chemicals. Typical use includes, storage tanks and silos in chemical industry, food industry, sewage works, septic tanks, sewage pipe lines etc.,

ADVANTAGES

Very hard and abrasion resistant
Resistant to waste and sea water.
Suitable for organic and inorganic acids and mineral oils
Coated surface can be steam cleaned.
Impermeable to carbon dioxide, thus protects concrete against carbonization.

PROPERTIES

| | |
|------------------------------------|--------------------|
| Colour | Any desired colour |
| Pot life at 27 +/- 2°C,in hours | 30-45 minutes |
| Density gm/cc | 1.50-1.60 |
| Minimum hardening temperature °C | 10 |
| Curing time, in days, minimum | 7 |
| Time interval between coats, hours | 12 - 16 |
| Number of coats | Min. 2 |
| Method of application | Brush / Roller |
| Dry film thickness (Two coats) | 400 microns |
| Finish | gloss |

APPLICATION INSTRUCTIONS

Surface preparation:

Concrete surfaces should be free from laitance and dust by sandblasting. In case sand blasting is not possible, thorough abrading with a hard wire brush can be used, though it is not as efficient. Otherwise, acid etching using 1 part of Hydrochloric acid with 2 parts of water can be carried out. The solution should be brush applied over the surface liberally and left in contact for 15 minutes. Then it is washed off with plenty of water followed by thorough drying with hot water.

The pre-requisites for good adhesion of the coating are cleanliness, roughness and dryness of the surface. Unless these are ensured by proper surface preparation, a successful performance can not be guaranteed.

The degree of dampness of the surface must be less than 4%.

Iron and steel surfaces must be free from rust, scale, dust, grease and other impurities which can prevent adhesion. The best pre treatment is sand blasting to Sa 2 1/2 . Bostik ZNP primer should be applied immediately after the removal of rust and other impurities.

APPLICATION

Primer application:

One brush coat of the following system is recommended as a primer, on the already treated surface :

Primer E2 Base 0.6 part by weight
Primer E2 Hardener 0.4 parts by weight

Both the components are individually mixed thoroughly for homogeneity and then mixed together in the above recommended ratio and applied using the conventional brush. The primer should be allowed to be just tack-free prior to the application of coating

Coating application:

Epoxycote SF Component A (base) should be thoroughly stirred before adding component B (hardener). Pour component B into component A and mix for 2 minutes with slow speed stirrer with suitable mixing paddle to get a consistent coating material. The coating is applied on the primer applied area evenly and a second coat is applied at right angles so that the entire area is fully covered, after the recommended interval of time.

Application on steel surface:

Primer : After proper surface preparation, like sand blasting, the surface is protected using Bostik ZNP , an epoxy zinc phosphate primer.

Top coating: Next day, two coats of Epoxycote SF is applied one after the other coat leaving the recommended time gap between coats, as described earlier.

Note:

1. Normally 2 - 3 top coats are recommended for protective treatment. The first top coat is applied over the primer coat and is left to dry. Next day, second day, next coat is applied, and if required third coat is done on the third day .
2. If longer intervals occur between individual coatings or in case coating is to be removed, the old surface should be thoroughly roughened and cleaned.
3. Since this product contained solvents, it is essential that when working in closed areas like inside containers or silos, good ventilation must be provided.
4. Please check with us for suitability of the product against individual chemicals.

CLEANING :

Immediately after application of Epoxycote SF, clean the tools, equipment and the mixing container using solvents like Bostik Thinner E otherwise, removal of dried / hardened epoxy mortar is difficult.

COVERAGE :

Primer – Primer E 2 : 5-6 Sq.mtr./kg

Coating – Epoxycote SF: 3 sq.m/kg/coat @ 200 micron DFT
2 coats recommended

Coverage may vary based on nature of substrate

PACKING: Epoxycote SF 5kg

STORAGE & SHELF LIFE:

Bostik Epoxycote SF Component A, and Component B as supplied shall be stored in a cool and dry place away from sunlight, moisture and high humidity and have a shelf life of 12 Months in the original packing.

HEALTH & SAFETY:

Epoxycote SF contains organic resins, hardener and other filler materials which may cause sensitization by skin contact. Avoid contact with skin and eyes and inhalation of vapour. In case of contact, wash liberally with water and seek medical advice, if required. Wear suitable protective clothing, gloves and goggles while handling.

WARRANTY:

Whilst Bostik India P Ltd., strives to ensure that any advice, information or recommendation given are appropriate and correct, it cannot accept any liability directly or indirectly arising out of the products, since the method and place of application of the products are beyond its control. Its guarantee is therefore limited to the quality of materials delivered

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