

PRODUCT
#2 COAT
General Purpose Epoxy Coating for Concrete Floors
DESCRIPTION

#2 COAT is a modified, two-component, solventless, epoxy coating primarily designed to protect Portland Cement Concrete (PCC) floor surfaces from moisture and many corrosive chemicals; it is skid-proof with high abrasion and wear resistance.

The coating provides a glossy, tile-like finish which is tough, easy to clean and sanitary. It will fill rough, uneven areas to provide a smooth finish.

USES

Surfacing concrete floors to provide a waterproofing and abrasion resistant membrane to factory floorings, warehouses, coldstores, parkings, basements, etc...

It is suitable for coating nuclear factories, de-activation pools etc...

Corrosion protection of steel.

Embedding bolts, re-bars, dowels.

SPECIFICATIONS

Form:	Two packs to be mixed immediately before using.
Colours:	Concrete grey, red, green, tobacco, ochre. Other colours upon request.
Mixing ratio:	4 Parts "A" to 1 part "B" by weight.
Density:	1,45 Kg/dm ³
Viscosity:	12-13 Poise
Pot-life:	40 mins. 0,1 dm3 mass
Solids content of mixed material:	100%
Application:	Spray, brush or roller.
Recommended film thickness per coat:	300-350 microns.
Number of coats:	2
Overcoating time:	Not less than 8 hours not more than 24 hours depending on ambient of temperature.
Shore "D" hardness:	90
Thin film tack free time:	5 hrs.
Typical cure schedule:	2-7 days.
Compressive strength:	87 MPa.
Tensile modulus:	2000 MPa
Elongation at break:	2%
Bond strength (mild steel to mild steel):	> 3.5 MPa
Tensile bond strength to concrete :	>2.0 MPa
Impact resistance (Gardner direct):	2.3 J
Flexibility:	Good.
Abrasion resistance:	Very good.
Weathering resistance:	Very good.
Temperature range:	Not recommended when ambient and/or surfaces temperature is below 10° C and falling.
Storage life:	18 (minimum) if stored in the original, sealed packs.
Packaging:	#2 COAT is available in 1 Kg, 3 Kg, 5 and 25 Kg units.

CHEMICAL RESISTANCE

#2 COAT has good chemical resistance to:
Water and aqueous solutions; tap water, distilled water, sea water and salt solutions.
Alkalis.
Organic acids of medium concentration.
Inorganic acids (sulphuric, muriatic and phosphoric acid up to 10%).
Inorganic bases (sodium hydroxide and potassium hydroxide up to 20%).
Anti-freeze liquids, oils, greases, gasolines, etc...

HOW TO USE

SURFACE PREPARATION.

Surfaces must be sound, dry and free from dirt, grease, old paint residues, loose material, rust or other contaminants. The recommended methods of cleaning are:

- Concrete and masonry: wire-brushing, sand-blasting, brush-hammering or acid etching.
- Steel: grit-blasting.

MIXING

Check uniformity of each component and stir parts "A" and "B" separately.
Mix only the quantity of material that can be used before expiration of pot-life. For standard quantities, pour all of part "B" into can containing part "A". Mix thoroughly using a mechanical low speed mixer with a paint mixing paddle until material attains uniform consistency and colour. Carefully scrape the sides and bottom of the containers while mixing. Thorough mixing will take 3 to 5 minutes.
For larger batches check uniformity of each component, stir parts "A" and "B" separately and thoroughly, measure the two components as specified on the packs into a clean container and proceed as above.

APPLICATION

#2 COAT may be applied by brushes, roller or airless sprayer. On a metal, wood or smooth trowelled concrete surface, one Kg. #2 COAT will cover up to 3 sqm. Most jobs will require the application of two thinner coats rather than one thick coat to avoid pin-holing. The second coat may be applied as soon as the first is touch dry. To insure good adhesion, the maximum time between application of the first and second coats should be:

24 hrs. at 25°C
16 hrs. at 32°C or more.

The proper thickness of the two coats system is 600-700 microns.

CLEAN UP

Clean tools and equipment with "OMNIA", or toluene, or acetone.

HANDLING AND TOXICITY

"A" and "B" Components For Industrial Use Only!

Good ventilation is necessary for indoor work, and great care should be taken to avoid inhalation of vapour from heated materials. Skin contact should be avoided by wearing impervious gloves (rubber or disposable polyethylene), and by using suitable goggles for eyes; water solvent barrier cream such as Kerodex N. 71 may also assist in affording additional protection. Any accidentally contaminated skin areas should be cleansed immediately with soap and water and/or a suitable resin removal cream. the use of solvents for skin cleansing should be avoided.

NOTES

#2 COAT is also available as #2 COAT S.G. (Summer Grade) offering same properties with adjusted pot-life for use in hot climate.

All information and direction contained in this technical data sheet are given in good faith and are based on the best known practical test.

SINIT, when having no control over transport, storage, handling, use and application of its product, must disclaim all responsibilities for any unsatisfactory results obtained.

All tests have been carried out at 23°C

Revised: January 2002

These data supersede all previously published data.