MASTERCOAT EP 100 C

CHEMICAL AND ABRASION RESISTANT FLOOR COATING BASED ON EPOXY RESIN

DESCRIPTION

MASTERCOAT EP-100-C is based on solvated epoxy resins specially formulated to provide a durable coating suitable for application to both vertical and horizontal surfaces. It cures to form a smooth film with good resistance to a wide range of mineral and organic acids, fats, alkalis and oils.

FEATURES / ADVANTAGES

- Excellent chemical resistance
- Excellent adhesion
- Equally effective on concrete or metal substrate
- Hygienic smooth surfaces.
- Touch abrasion resistant coating

TYPICAL APPLICATIONS

A hygienic and chemical resistant coating for concrete floors, concrete walls, concrete and metal columns, steel tanks and ducts.

TYPICAL CHARACTERISTICS

- Nature : Two component (Part I– Resin, Part II – Hardener)
- Pot life : 60 – 90 min.
- Cure Time : 35 hours
- Time between coats : 4 – 6 hours
- Initial Hardness : 24 hours
- Full cure : 7 days
- Specific gravity of mixed material : 1. 20

DATA ON CHEMICAL RESISTANCE

MASTERCOAT EP-100-C has been tested for resistance to a comprehensive range of chemicals commonly encountered. Tests were performed by constant immersion for 3 months at 20°C and 35°C in the selected chemical solution. Samples were visually inspected and tested in accordance with ASTM D2240 for Shore D hardness.

Acids

Hydrochloric	20%	Excellent
Nitric	15%	Excellent
Sulphuric	50%	Excellent
Phosphoric	50%	Excellent
Acetic	10%	Good
Lactic	10%	Good
Citric	10%	Excellent

Alkali

Sodium Hydroxide	50%	Excellent
Ammonia (.880)	10%	Excellent

Solvent

Petrol, Oil, Kerosene	Excellent
Acetone	Limited resistance
Butanol	Very good
Skydrol	Limited

Other solutions

Bleach	Excellent
Saturated sugar	Excellent
Urea	Excellent
Sat. NaCl solution	Excellent

Mastercoat EP-100-C has been formulated especially to provide the highest chemical resistance. However, at elevated temperatures or where mixtures of chemicals are involved then the effects may be different than those found in laboratory tests described above. Consult our technical services department if you are in doubt.

DIRECTIONS FOR USE

Where relevant, the application and preparation should conform to the British Standard Code of Practice CP 3003 : Part 5, 1966. The advice given below is a summary.

PREPARATION

Surface to be coated must be structurally sound, dry and free from loose material. All surface contamination must be removed. Grease and oil should be grit blasted or water jetted. Deeper penetration must be removed by mechanical means. Any laitance must be removed from concrete surface by etching with MASTERKLEAN AEA then washed off and dried. New concrete should be allowed to cure for at least 28 days prior to priming. Steel surfaces should be shot-blasted to a profile of 125 microns (0.005 inches)
It is essential that Mastercoat EP-100-C be applied to sound clean, dry substrates in order to achieve maximum adhesion between the coating and substrate.

PRIMING

Steel surfaces should be primed with zinc rich primer a two-part zinc rich primer prior to applying Mastercoat EP-100-C concrete surfaces should be preferably primed with Masterprime 52.

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MIXING

Before mixing, the contents of each should be thoroughly stirred to disperse any settlement, which may have taken place during storage. Mix Part I & II thoroughly using a mechanical stirrer.

APPLICATION

The mixed material is applied on using standard paintbrush, good quality roller or sprayed with airless spray equipment. Care should be taken to ensure continuous film and proper material consumption.

COVERAGE

The coverage will be 4 to 6 m^2 per kg per coat. Density is 1.2

STORAGE AND SHELF LIFE

Shelf life is one year when stored the material at a cool and dry place (at 25°C)

CLEANING OF TOOLS & EQUIPMENTS

Tools have to be cleaned using Choksey's Masterklean SOL.

PACKING

1 kg & 5 kgs.

PRECAUTIONS

Mastercoat EP-100-C should be applied with gloves and care should be taken to see that it does not fall on eyes. Splashes on to the skin have to be cleaned only with plenty of water and medical advice has to be taken.