

EPOFLOOR 1000 SL

SELF-SMOOTHING EPOXY FLOOR

PRODUCT DESCRIPTION

EPOFLOOR 1000 SL is a specially selected epoxy system for new and old concrete floor to provide a hard wearing, chemical resistant, impervious and easy to clean seamless floor topping.

EPOFLOOR 1000 SL is a unique blend of polymer resins and special aggregate designed to level pitted, and worn concrete floor quickly and easily. It has excellent chemical resistance and is flexible enough to withstand impact while remaining sufficiently strong to withstand industrial traffic. It is a 100% reactive system totally free of solvents.

FEATURES/BENEFITS

- Flowable consistency for self levelling application.
- Solvent free formulation ensures low odor application.
- Bonds tenaciously to become an integral part of the floor.
- Easy application and easy to maintain.
- Excellent chemical resistance.
- Cures to form a dense, impervious seam-free continuous surface.
- Excellent durability and impact resistance.
- Available in a wide range of colors.

TYPICAL APPLICATION

- Pharmaceutical Industries
- Chemical Plants
- Manufacturing Plants
- Warehouses
- Showrooms
- Auto/Truck repair bays.
- Laboratories
- Hospitals

STANDARD COLORS

White, Concrete Grey, Yellow and Green. Special colors available on request.

CURING SCHEDULE @ 70° F (21°C)

Tack free	-	6 hours
Light traffic	-	24 hours
Full Cure	-	7 days

SURFACE PREPARATION AND APPLICATION PROCEDURE

SEQUENCES OF APPLICATION

1. Surface preparation of the substrate.
2. Priming of the substrate.
3. Laying self-levelling epoxy floor topping.

SURFACE PREPARATION OF THE SUBSTRATE

The concrete should be at least 28 days old and

shall be free from any contaminants such as oil, grease, curing membrane, etc. This can be achieved by mechanical means such as mechanical scarifier, shot / sand blaster, etc. If the substrate is acid etched it should be thoroughly cleaned with fresh water and allowed to dry. The cement laitance / projections shall be removed thoroughly and the pot holes shall be levelled with EPOMORT 1000 GEL / CEMTEC EPOMORT 100 to achieve an even surface.

The surface over which the **EPOFLOOR 1000 SL** is to be laid must be flat and suitably prepared.

NOTE: If the moisture content of the concrete is more than 5% or if rising dampness is observed, the Technical Department of CMCI should be contacted.

PRIMING

The prepared substrate shall be primed with EPOMORT 1000 LV before applying **EPOFLOOR 1000 SL** (refer Technical Data Sheet of EPOMORT 1000 LV for application procedure).

Where the substrate is observed to be porous, it shall be primed again and puddling of the primer shall be avoided. The primer shall be allowed to dry, "tack free", before laying **EPOFLOOR 1000 SL**.

NOTE: Application of **EPOFLOOR 1000 SL** shall not be delayed more than 24 hours after priming the substrate.

LAYING OF SELF-SMOOTHING EPOXY FLOOR

Mixing

EPOFLOOR 1000 SL comprises three components, base resin, hardener and filler. The hardener shall be poured into the base resin in the mixing vessel and shall be mixed thoroughly for 1-2 minutes using heavy duty slow speed drilling machine fitted with paddle. Aggregate shall then be added slowly and mixed for 3-5 minutes to achieve a uniform consistency.

The areas to be laid shall be marked for every one to two packs to achieve a uniform thickness as recommended. For large areas, planning of laying sequences is essential. The Technical Department of CMCI can be contacted for more information.

LAYING

Continuous placement of an adequate quantity of material is necessary to provide the most uniform and level surface. Start in one corner and place a continuous stream of material along one edge of the area and back up the first placement strip as soon as possible to achieve a uniform, level surface.

A serrated trowel shall be used to spread the material evenly to achieve the required thickness. Wait few minutes and then use a spiked roller to back roll the material to disperse any entrapped air and to further level the material. Light rolling may then be required if air release is still apparent in the surface. The rolling can be continued until the roller marks take two minutes to disappear.

PACKING AND COVERAGE

26 Kg. pack covers 16.25m² at 1000 microns thickness

SHELF LIFE

In unopened packs **EPOFLOOR 1000 SL** has a life of 12 months when stored below 35°C.

CLEAN UP

Clean tools and equipment with CEMTEC SOLVENT

PRECAUTIONS

- Avoid application when the air and floor temperatures are below 50°F. (10°C)
- Store indoors at 45° to 110°F (7° to 43° C)
- Do not use without a primer
- Solvents are flammable. Keep away from heat, sparks, open flame, or lighted cigarettes. Use explosion-proof application equipments.

ADDITIONAL INFORMATION

EPOFLOOR 1000 SL is one of the EPO range of self-leveling flooring products. In addition, Epoxy coating and Epoxy Mortars and Integral Floor Hardeners are available to meet all industrial requirements.

CHEMICAL RESISTANCE

Acetic Acid, 5%	excellent
Alkalies	excellent
Ammonia	excellent
Battery Acid	excellent
Bleach	excellent
Beer	excellent
Brake fluid	excellent
Ethanol	good
Ethylene Glycol	excellent
Gasoline	excellent
Hydrochloride Acid, 10%	excellent
MEK	poor
Methylene Chloride	poor
MIBK.....	poor
Nitric Acid, 5%	poor
Oil	excellent
Phosphoric Acid 30%	poor
Salt water ..	excellent

Skydrol	excellent
Toluene	good
Urine	excellent
Xylene ...	excellent

Note: Where chemical resistance is rated as poor, Contact the Technical Department of CMCI for advice about possible topcoats for ungraded chemical resistance.

Ratings: Poor - affected with 24 hours. Good- No effect for 24 hours, Excellent - No effect after 2 weeks

ENGINEERING DATA

Pot life at 70° F (24°C)	- 20 - 40 minutes
Film Thickness	- Minimum 0.5 - 1.0 mm
Flexibility	- Excellent
Abrasion Resistance	- Excellent
Weathering	- Good
Solid Content	- 100%

PHYSICAL PROPERTIES (As per BS 6319)

Compressive Strength	- 50 N/mm ²
Flexural Strength	- 35 N/mm ²
Tensile Strength	- 17 N/mm ²

TD/PDS/0307/A

QUALITY STATEMENT

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.