

BC Floor 4000 SL

Description:-

BC Floor 4000 SL is a specially selected solvent free epoxy system for new and old concrete floor to provide a hard wearing, chemical resistant, impervious and easy to clean floor topping. BC Floor 4000 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 to withstand impact while remaining sufficiently strong to stand upon industrial traffic. 100% reactive system totally free of solvents.

Features & benefits:

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

Basic uses:

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





Curing schedule:

Tack free	6 hours
Light traffic	24 hours
Fully Cure	7 days

Sequences of application:

- Surface preparation of the substrate.
- Priming of the substrate.

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 BC Poxy putty 2000 / BC Poxy mortar 5000 to achieve an even surface.

Priming:

The prepared substrate shall be primed with

BC Poxy primer 349 before applying BC Floor 3000 SL

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 BC poxy 4000 SL



Mixing:

BC Floor 3000 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 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 1/2 packs to achieve a uniform thickness as recommended.

For large areas, planning of laying sequences is essential.

Laying self-levelling epoxy floor topping:

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.





Engineering data:

Pot life at 70° F (24 ° C) -	20 - 40 minutes
Film Thickness	Minimum 3 mm
Flexibility	Excellent
Abrasion Resistance	Excellent
Weathering	Good
Solid Content	100%

Physical properties:

Compressive Strength	60 N/mm ²
Flexural Strength	32 N/mm ²
Tensile Strength	17 N/mm ²

Equipments / tools:

Shot / Sand blaster,
Scabber,
Grinder,
Masking tap,
Serated Trowel,
heavy duty slow speed frilling machine fitted with suitable paddle,
Spiked roller,
Spiked shoes.
Brushes, etc.



Shelf Life:

In unopened packs BC Floor 3000 SL has a life of 12 months when stored below 35° C.

Clean up:

Clean tools and equipment with BCI Solvent

Health & safety:

Avoid application when the air and floor temperature are below 50° F. (10°C).

Store indoor 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.

Coverage:

27 kg pack covers 3.75 m² at 4 mm thickness.

Packaging:

27 Kg kits yields 15 ltrs.

Color:

WhiteTile Red, Concrete Grey, Battleship Gray, Black, Yellow, Green, Blue and Terra Cotta

