Poxy Floor SL 4000

We Create Better Future

High Performance Self Leveling Epoxy Flooring

Description:
Poxy Floor SL 4000 is a solvent free, high performance three components pigmented self-leveling product composed of epoxy resin, hardener, selected silica and color pack. Poxy Floor SL 4000 is designed for application at a nominal thickness of 5 mm Poxy Floor SL 4000 has high filling ability when applied to concrete floors. Once cured, it provides a watertight seamless coating with high abrasion, mechanical and chemical resistance.

Uses:
- Dry food plants
- AGV tracks
- Pharmaceutical industries
- Manufacturing plants
- Warehouses
- Showrooms
- Auto/Truck repair bags
- Laboratories
- Hospital

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

Surface Preparation and Application Procedure
- Surface Preparation of the substrate
- Priming of the substrate
- 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 and the pot holes shall be levelled with Poxy Putty 500 to achieve an even surface.

Note
If the moisture content of the concrete is more than 5% or if raise in dampness is observed, the technical department of BuilChem can be contacted.

Priming
The prepared substrate shall be primed with Poxy Primer Clear 400 before applying Poxy Floor SL 4000
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 Poxy Floor SL 4000
Note: Application of Poxy Floor SL 4000 shall not be delayed more than 24 hours after priming the substrate.

Laying of Self-Levelling Epoxy Floor Mixing
Poxy Floor SL 4000 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 to 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. For more information, please contact BuilChem technical department.

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 materials 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 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.

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

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MBK ..... Poor
Nitric Acid, 5% ---------- Poor
Oil ---------- Excellent
Phosphoric Acid, 30% ---------- Poor
Salt Water ---------- Excellent
Slydral ..... Excellent
Toluene ---------- Good
Urine ---------- Excellent
Xyline ---------- Excellent

Note:
Where chemical resistance is rated as poor, contact the Technical Department of BuilChem for advice about as a possible topcoat for ungraded chemical resistance.

Ratings :
Poor – Effected with 24 hours.
Good – No effect for 24 hours.
Excellent – No Effect after two weeks.

Engineering Data
Pot life at 70°F (24°C) - 20-40 Minutes Film
Thickness - Minimum 3-4 mm
Flexibility - Excellent
Abrasion Resistance - Excellent
Weathering - Good
Solid Content - 100%

Physical Properties (As per BS 6319)
Compressive Strength - 60 N/mm^2
Flexural Strength - 32 N/mm^2
Tensile Strength - 17 N/mm^2

Equipment / Tools
Shot / Sand blaster, Scabbler, Grinder, Masking tape, Trowel, heavy duty slow speed drilling machine fitted with suitable mixing paddle, Spiked Roller, Spiked Shoes, Brushes, etc

Shelf Life
In unopened packs of POXY FLOOR SL 4000 has a life of 12 months when stored below 35°C

Coverage:
27 Kg pack covers 3.75 m^2 at 4mm thickness

Packaging:
The product supplied in 24 Kg Kits yields 15-liter containers. (Total base, hardener, and aggregate)
Color : Grey (RAL 7040)

Cleaning:
All equipment's should be cleaned of uncured product using SOLVENTE.

Storage:
Keep the product in dry and sheltered place, at the temperature between 5°C and +30°C. In these conditions its stability is of at least 12 months.

Limitations:
- POXY FLOOR SL 4000 should not be applied at temperatures below 10°C and above 45°C.
- Mixing tools should be cleaned with SOLVENTE after use.
- POXY FLOOR SL 4000 should not be applied to asphalt, weak or friable concrete, PVC tiles or sheet substrates.
- POXY FLOOR SL 4000 should not be applied if the surface relative humidity is more than 75%.
- All Existing expansion or movement joints should be followed through the new floor surface.
- It is strongly recommended to apply POXY FLOOR SL 4000 by specialist contractor or experienced applicator who must follow the procedures laid down in the product Method Application.

Health and Safety:
Keep the product away from sources of ignition. Containers should be tightly sealed when not in use.
- In the event of fire, extinguish with Carbon Di Oxideor foam type extinguisher.
- During application, wear appropriate protective clothing, goggles and respiratory equipment.
- Avoid contact with skin, eyes and inhalation of vapor.
- Ensure proper ventilation at working place.
- In case of contact with skin, rinse with water andagain wash thoroughly with soap and water.
- In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.
- In ingested, do not induce vomiting. Seek medicalattention immediately.
  Please refer to the product safety data sheet for further details.

Important Note:
The information contained herein is to the best of our knowledge true and accurate and is given in good faith, based on practical experience and applied testing Site or application – specific conditions may vary from those described here and thus the correct and successful use of the product is beyond our sphere of influence. If in doubt, the user should therefore first carry out sufficient tests to ensure the product is suitable. Legal liability cannot be accepted, either solely based on the content of this information sheet or any verbal advice given.
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Ver. 01/2024

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