



LayPoxy SF

Epoxy Coating Solvent Free

PRODUCT DESCRIPTION: LayPoxy SF 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 seamless floor topping. It is a unique blend of polymer resins and special fillers designed to protect concrete floors. 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.

USES: LayPoxy SF was developed as a floor topcoat for

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

ADVANTAGES: LayPoxy SF is more resistant to severe abrasion than most other rubber linings and coatings. Its advantages are:

- Solvent free formulation ensures low odor during 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 seamfree continuous surface.
- Excellent durability and impact resistance.
- Available in a wide range of colors.

LIMITATIONS: LayPoxy SF should not be applied when the ambient temperature is below 50 Deg.F. (10 Deg.C.) or if rain is anticipated within 24 hours of application.

PACKAGING: Packaged in 20 Kg drum. The pack covers 7 m² at 2000 microns thickness.

COLORS: LayPoxy SF is available in standard Gray, Sandstone, Brownstone, Green and Red.

TECHNICAL DATA:

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

ENGINEERING DATA

Pot life at 70 Deg. F (24 Deg. C)-20 - 40 minutes

Film Thickness - Minimum 1.5 mm

Flexibility - 50 N/mm²

Abrasion Resistance - 35 N/mm²

SEQUENCES OF APPLICATION

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

Surface Preparation: 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 potholes shall be leveled with self-leveling underlayment to achieve an even surface.

NOTE: Do not apply if the moisture content of the concrete is more than 5% or if rising dampness is observed.

PRIMING

Laypoxy is self-priming. However, the prepared substrate can be primed with LayPrime to seal porous

NOTE: Application of LayPoxy shall not be delayed more than 24 hours after priming the substrate.

Mixing: LayPoxy SF comprises two components, base resin and hardener. 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 to achieve a uniform consistency

Application: 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.

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 as piked 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

Precautions: Avoid contact with eyes and skin.

Cleaning: Clean with xylene

Storage Life: In unopened packs Laypoxy has a life of 12 months when stored below 35 deg. C.



MAINTENANCE: LayPoxy SF is maintenance-free and permanent. If damaged, it may be mechanically removed and re-applied.

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