

KEMFLOR 317 SL

ELECTROSTATICALLY CONDUCTIVE

Rev.00-241110

PRODUCT DESCRIPTION

KemFlor 317 SL is a solvent-less self-leveling, electro-statically conductive, epoxy resin based floor coating system for use in industrial and commercial environments. It produces a smooth, self-leveling finish with several advantages.

- Electro-statically conductive
- Good chemical resistance
- Good abrasion resistance
- Free of solvents
- High mechanical strength
- Easy & fast application
- Floor can be put in use quickly
- Good durability
- Seamless
- Aesthetic: Available in several colors
- Provides a hygienic surface (easy to clean)

INTENDED USES

KemFlor 317 can be used as decorative, electro-statically conductive & self leveling flooring for concrete. Particularly suitable for areas with sensitive electronic equipments as computer rooms, charging rooms, etc.

- Automotive industry
- Pharma unit
- Electronic Assembly
- Hospitals
- Laboratories
- Warehouses

TECHNICAL DATA

Application Conditions:

Moisture content < 4%

Relative humidity Max 80 %

Surface & uncured floor must be atleast 3°C above dew point to reduce risk of condensation

Placing of Earthing points: Per rooms atleast 2 earthing point.

Electrostatic behavior Resistance to earth:

Kemflor 317 (CF): $1 \times 10^6 \Omega$

Kemflor 317 (DF): $1 \times 10^6 \Omega - 1 \times 10^9 \Omega$

Kemflor 317 (AS): Charge > $1 \times 10^{10} \Omega$

Mechanical Properties:

Compressive Strength : 80 n/mm²(672 Hrs)

Shore D Hardness : 77 (72 Hrs)

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SPECIFICATION DATA

Thickness	1mm
Type	3 pack
Shade	Limited
Finish	Semi Glossy
Chemical Base	SL Epoxy Amine
Mixing Ratio	2.5:1:3.5/wt
Coverage kg/sq.m.	1.62
Recommended No. Of Coats	1
Re-coating Interval	Min. 16 hrs
Surface Dry Time	6 hrs
Curing Time	7 days
Pot Life	30 min
Shelf Life (under std. condition)	12 months
Recommended System	Various
Pack Size	-

NOTE:

- These figures are theoretical under controlled conditions and may vary depending upon site conditions i.e. temp., humidity, surface porosity, surface profile, handling of material etc.
- It is not possible to achieve exact colour matching in very bright light colour due to nature of carbon fibres imparting the conductivity & under direct sunlight their may be discolouration but has no influence on function & performance of coating.

DIRECTION OF USE

SURFACE PREPARATION:

As is the case with every coating scheme, the surface profile is of utmost importance. In order to achieve optimum bonding between substrate and coating, it is necessary to apply product only on fully dry and neatly cleaned surfaces. Concrete surfaces must be prepared mechanically using blast cleaning. Concrete or screed surfaces has to be leveled & primed in order to achieve even surface.

Precautionary measures for new concrete floors:

Newly laid concrete surfaces are; For the first month or so after pouring, "green" meaning i.e. wet and alkaline. New concrete should be allowed to cure for 28 days prior to coating because of the concerns over the effect of water on floor coating adhesion. Check the moisture level (should be below 5%) prior to application.

Precautionary measures for old concrete floors:

Surface should be free from dust, grease, oil, laitance, loose material, old coatings etc. Generally cleaning



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with Kleenol or equivalent is enough to remove grease/oil. Smooth, aged concrete may be etched with dilute hydrochloric acid for suitable roughness and better adhesion of the epoxy flooring. In case of heavy oil & grease contamination, existing partial coating or structurally unsound concrete layer has occurred or old coatings are present mechanical cleaning is advisable.

KEMFLOR 317 SL APPLICATION:

After surface preparation the system adopted for KemFlor 317 SL is:

Primer: 1 * KemOxy Conc. (P) @ 0.150-0.30 kg/sq.m depending on the surface porosity.

Earthing Kit: Chembond Earthing Kit.

Conductive Coat : 1 * KemOxy (AS) @ 0.215 kg/sq.m

Conductive Wearing coat : Kemflor 317 SL @ 1.62 kg/sq.m

CLEAN UP

For cleaning of application equipment and tools use Chembond's thinner no.3.

MAINTENANCE

For maximum life expectancy, routinely sweep and wash floors with conventional detergent cleaners. Do not steam clean: all spills powder or liquid should be cleaned up immediately. Inspect the floor regularly for wear, breaks or damages, if found any immediately consult with Chembond's technical service personnel or authorized applicator.

SAFETY PRECATIONS

Take care to avoid skin or eye contact and breathing vapours. In the event of the skin contact immediately wash thoroughly. In the event of eye contact, wash continuously for 15 minutes in water and seek medical advice. Wear protective clothing, gloves, and safety glasses while using this product. If inhalation occurs, move to fresh air and seek medical advice in case of difficulty in breathing. Keep material away from heat, flames, and sources of ignition. For further details read Material Safety Data Sheet.

LIMITATIONS OF LIABILITY

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.