KOSFLOR

High Performance Concrete Protection

SL-201

KOSSAN PAINT

SELF-LEVELING EPOXY FLOOR COATING (1 – 3 MM)

Description

KOSFLOR SL-201 is a 2-components solvent-free self-levelling epoxy resin floor finish applied at 1mm – 3mm. It makes industrial floors dust free, join less, glossy finishing and available in a wide range of colour.

Feature

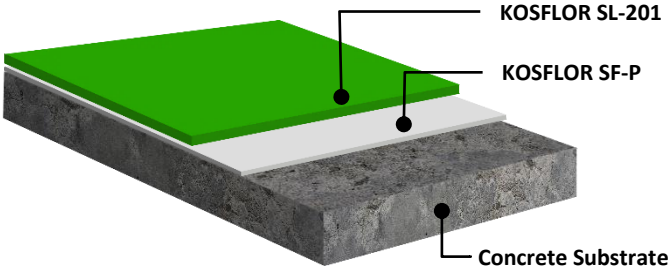
It provides a tough and smooth surface covering for industrial floors with good water, chemical and abrasion resistance like trolley, pallet truck and fork lift traffic. Areas applied include laboratories, electronic and clean room, automotive assembly, aircraft hangar, pharmaceutical, printing pulp paper mills, refineries and etc.

Benefits

- ❖ Outstanding toughness with hard wearing and impact resistance.
- ❖ High chemical resistance to wide range of chemical
- ❖ Low VOC, low odor during application
- ❖ Hygienic, easy to take care
- ❖ Abrasion resistant, against medium traffic and trolley movement.
- ❖ Self –leveling property provides dust free, seamless floor.
- ❖ Available in wide range of colour

Colour & Texture

- Wide range of colour
- Mirror Finish – High Gloss



Technical Data

Specific Gravity	:	1.35-1.45 kg/L
Flash Point	:	>24°C
Solid Content (mixed)	:	100%
Pot life (working time)	:	30 minutes at 25°C
Mechanical curing time	:	24 hours
Full cure	:	5 days
Compressive Strength	:	55 MPa (ASTM C579-01)
Tensile Strength	:	18 MPa (ASTM C307-03)
Flexural Strength (Pull-out Strength)	:	2N/mm² failure in concrete (ASTM D4541)
Abrasion Resistance CS-17	:	10 mg weight loss after 1000 cycles of abrasion (ASTM D4060)
Mixing ratio (A/B)	:	80/20 by weight
Coverage	:	1L (1.35kg~1.45)kg/m²/1mm thickness
Packaging	:	5 & 20L-Set
Self life & storage (unopened and in good conditions temperature 10°C to 30°C)	:	24 months
Cleaning Thinner	:	Thinner 6.03

Typical Coating System For Concrete

Coating Sequence	Product Name
Primer	KOSFLOR SF-P
Finishing Coat	KOSFLOR SL-201

Depending on the substrate condition, coating system and working conditions, few option of coating system are recommended, please consult our Technical Advisors for more detail.

KOSSAN PAINT (M) SDN BHD
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Substrate Requirement & Preparation

- Substrate concrete screed should a minimum of compressive strength 25N/mm² and adhesive pull-off strength of minimum 1.5N/mm² (concrete failure).
- New concrete floor should be a minimum of 28 days and must be dry to below a moisture content of 4%
- For adequate adhesion of coatings to concrete surface should be free of laitance. Oil, grease, dust, paint residues, algae, loose and friable material must be completely removed form all surface before application the product.
- Rough contaminations and high spots can be remove by grinding.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and a achieved on open texture surface.
- Surface must be dry and free from any leakage source.
- All surface cracks, holes, damage concrete surface must first be repair with **KOSSAN Epoxy Unifiller** (or) suitable patching compounds.

Mixing

Stir Part A and mix for 30 seconds by using suitable electrical stirrer (with 750 watt high power mixer), then add all of Part B (hardener) and mix both liquid parts thoroughly for one minute until a fully homogenous mixture has been obtained.

Application

- Apply **KOSFLOR SF-P** as 1st coat primer on well prepare surface by good quality medium pile lamb wool roller then allowed to cure within 8-14 hours prior to application of **KOSFLOR SL-201**
- Apply **KOSFLOR SL-201** within the pot life (working time), spread the composite matrix with notched squeegee or pin rake and set it to the correct depth or requirement thickness. Immediately release the air/bubble by using spike roller.
- Do not apply when the relative humidity exceed 90% on when the surface to be coated is less than 5% above the dew point.
- Do not apply temperature below 5°C and temperature above 40°C

Cleaning of Tools

Clean all tools and application equipment with Kossan epoxy thinner immediately after use.

Chemical Resistance

CHEMICAL	CONCENTRATION	RESISTANCE
Citric Acid	10%	Excellent
Tartaric Acid	10%	Excellent
Acetic Acid	5%	Excellent
Nitric Acid	25%	Very Good
Hydrochloric Acid	25%	Excellent
Sulphuric Acid	50%	Excellent
Sodium Hydroxide	50%	Excellent
Fuel / Petrol	-	Excellent
Sugar Solution	-	Excellent
Lactic Acid	10%	Excellent
Hosphoric Acids	50%	Very Good
Xylene	-	Very Good
Skydrol	-	Good

Maintenance and care after cure

Recommend basic cleaning and maintenance will prolong the life of epoxy floors, clean regularly using a single or double headed rotary scrubber drier in conjunction with alkaline detergent.

Further Information

Warning and precautions information relating to the safe handling of this product should be found in Material Safety Date Sheet. To be advise to put on suitable clothing and eye-ware for protection purpose. The application area/site must be in good ventilation otherwise advisable to use a portable exhaust fan.

Important Note

KOSSAN PAINT product are warranty against defective materials. Due to different substrate and working conditions, no guarantee of an application result or any liability claims. The users are required to have a test ahead based on their intended use.

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