

Technical Data Sheet
Number :
Effective Date : 01/02/2020



UVL-50107

UV Floor Laminate Solvent Free System



PRODUCT DESCRIPTION

POLYFLOOR UVL-505107 FL CLEAR 50 is one component solvent free (SF) UV cured laquer with textured surface finish for anti slip flooring system. Based on acrylated resin

FIELDS OF APPLICATION

- Car park area
- Processing area
- Warehouses
- Loading dock
- Workshop, showroom
- All area where anti slip system are required

ADVANTAGES

- Excellent scratch resistant (>5 mohs scale)
- Instant cure
- Food grade certified
- Durable, good abrasion resistant
- Excellent adhesion
- Chemical resistant
- Hygienic, good fungus and biological resistant

TECHNICAL DATA

Type	: One component solvent free UV cured laquer floor topping
Color	: Clear
Finish	: Satin
Solid by Volume (mixture)	: $\pm 98\%$
Specific Gravity (mixture)	: $\pm 1.24 \text{ gr/cc}$
Material Consumption	: 0.08 kg-set/m^2 for $\pm 50 \text{ microns DFT}$
Curing Condition (30°C)	:
- Curing Time	: Instant cure
- Curing Energy (UVA)	: $> 150 \text{ mj/cm}^2$
- UV Trolley Speed	: $0.20 - 0.30 \text{ m/s}$
- Open Traffic	: Directly
Packaging	: 5 and 20 kg
Storage Stability	: One year in cool and dry storage and in original not opened box.
Mixing Ratio by Weight	: Ready For Use
Pot life	: No Pot Life
Application Method	: Squeegee, Metal Trowel and short hair epoxy roll
Re-coating Interval (30°C)	: Directly
Application Temperature	: $25 - 35 \text{ }^\circ\text{C}$
Humidity Maximum	: $80 \% \text{ RH}$
Bonding Strength	: $> 2.5 \text{ N/mm}^2$ concrete failure (ASTM D-4541)
Hardness	: $>5 \text{ mohs scale}$
Provide adequate ventilation during application and drying	



INSTRUCTION FOR USE

Surface Preparation

Compressive strength of concrete floor not less than 25 N/mm² in more than 28 days. Moisture content should be less than 5% and the surface temperature must be at least 3°C above current dew temperature. Remove oil contaminants using industrial grade detergent or degreasing compound as chemical cleaning and mechanical cleaning.

Application Procedure

Function	Product and Tools	Coating amount	Curing Time
Patching	: Polyfloor mortar PFM-222-3K SF. Mix well and apply with metal trowel. Mixing ratio component A : B : C = 3 : 2 : 35 by weight	22 kg-set /m ² /cm	± 8 hrs (30°C)
Primer Coat	: Epoxy primer PFP-251-2K SF. Mix well using mixer ± 2 minutes and apply with rubber squeegee and then epoxy roll. Mixing ratio component A : B = 2 : 1 by weight	0.20 kg-set/m ²	± 12 hrs (30°C)
Top Coat	: Mix component A Polyfloor epoxy PFT-215 M-2K SF in low speed mixer. Pour component B to component A while stirring and mix well ± 2 minutes. Mixing ratio component A : B = 7 : 1 by weight	1.60 kg-set/m ² /mm	± 12 hrs (30°C)
UV Coat	: Sanding the epoxy coat before apply evenly. Apply and spread with metal trowel and use the short hair epoxy roll to get the texture well. Use the UV lamp for curing the UVL-50107. UV coat can be used directly	0.08 kg/m ² /50 mic	

RECOMMENDED COATING SYSTEM

Preceding coats : All epoxy and PU flooring system

Subsequent coats : Propan UV Floor series

CLEANING

POLYFLOOR UVL-50107 FL CLEAR 50 should be removed from tools and equipments with Propan Epoxy Thinner. Hardened material can be removed mechanically only.

SAFETY PRECAUTIONS

POLYFLOOR UVL-50107 FL CLEAR 50 is not flammable and does not contain heavy metals in its materials such as lead. Avoid Contact with skin and eyes. Do not inhale. Wear suitable protective equipment such as goggles, dust mask and gloves. Do not smoke near this product and use only explosion proof equipment.

First Aid

Skin contact : Rinse under plenty of water immediately. Seek medical advice if irritation persists.
 Eye contact : Wash off under plenty of water immediately. Seek medical advice if irritation persists
 Inhalation : Take the person out to get more fresh air, loosen collar and avoid exertion. Keep him rested and help using breathing apparatus.

