

Green PU Floor MF

Polyurethane Self-Levelling Flooring System (4-6 mm)

DESCRIPTION

Green PU Floor MF is a four component, self-smooth polyurethane flooring system designed for concrete & other substrates. This system offers high resistance against impact, thermal shock, abrasion and chemicals for industrial & commercial environments.

Green PU Floor MF is as a colored mortar flooring system for industrial floors with high mechanical and hygienic, antibacterial, antimicrobial demands. **Green PU Floor MF** floors exhibit excellent properties, good wear resistance and an outstanding resistance to chemicals.

USES

Green PU Floor MF is suitable for:

Commercial & Industrial Floor Surfaces, Warehousing & Storage. Meat, Poultry and Fish Processing Plants. Dry Processing Plants, Food & Beverage Industry.

Milk & Dairy Industry, Tobacco Processing Plants, Chemical Production Plants.

Battery Plants, Textile Processing Plants Hotel & Bakery Industry Kitchens.

ADVANTAGES

- Short curing time. Foot traffic permitted after 8-10 hours and vehicles after 24 hrs.
- Excellent mechanical properties
- High impact and abrasion resistant
- Resistant to thermal shock
- Resistance to steam & hot water cleaning
- Good resistant to wide range of chemicals.

Products SPECS

Appearance	Four Component PU Flooring A = Base B = Hardener C = Aggregate D = Color Pack
Packing	20 Kgs. (4 Components)
Solid Contents	99%
Density	1.9 g/cm ³ @ 20 ⁰ C
Standard colors available	Grey, Green, Yellow, Cream & Red,
Shelf Life	12 Months, stored in covered area at 10 ⁰ -35 ⁰ C.

APPLICATION INSTRUCTIONS

Surface Preparations:

Green PU Floor MF is applied onto a substrate primed with its scratch coat. The substrate must be clean and free of dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed. Thoroughly prepared floor surface helps to achieve the necessary adhesive bond between the substrate and the new floor. All existing expansion and construction joints should be cleaned and prepared. Whole floor surface should be scarified or sand blasted. Groove cutting should be done for better anchoring of the PU material in the floor.

Mixing:

Green PU Floor MF is supplied in proportionate four component containers. 1st of all add component A, in a mixing bucket. After stirring the A-component add component D and then B component is added and mixed for about 40-45 seconds using an electric stirrer (spiral stirrer). After adding the aggregate, component C, the mixture is stirred homogeneously for 1.5–2 minutes depending on ambient temperature.

Scratch Coat:

The product is poured onto the properly prepared, vacuum shot blasted substrate and spread across the floor with a trowel. consumption is about 2.0 Kgs. /-m².

Flooring:

The product is poured onto the substrate and spread to a layer thickness of about 4–5 mm with a trowel with consumption of 4 to 10 kg/m². Immediately following application, the flooring must be vented with a spiked roller. In order to avoid edges forming, adjoining areas must be laid within 10 minutes.

COVERAGE

Coverage 2.0 Kgs. Per M² /- mm thickness.

PHYSICAL PROPERTIES WHEN CURED

Abrasion resistance	AR 0.5	(BS 8204)
Resistance to impact	Heavy duty	
Modulus of elasticity in flexure	3250-4000 MPa	BS 6319 Part6
Compressive strength	48-53MPa	BS6319:Part 2
Flexural strength	21 MPa	ISO178
Tensile resistance	~9 MPa	BS 6319 Part7
Tensile adhesion strength	≥ 2MPa (concrete failure)	
Chemical resistance	Extensive chemical resistance	
Temperature Resistance	70 C° to 90 C°	

PACKAGING

Green PU Floor MF is supplied in 20 Kgs. Packing.

STORAGE

Green PU Floor MF has a shelf life of 12 months. Its PU based resin must be stored in the original unopened Containers at 5^o C to 30^o C.

HEALTH & SAFETY PRECAUTIONS:

Where temperatures is less than 5^o C or greater than 35^o C are encountered, Contact our Technical Staff for specific advice. **Green PU Floor MF** is non-toxic, but it is alkaline in nature. Any contact with eyes or skin should be washed off with soap and clean water. Protective gloves, goggles and clothing should be worn. Repeated Contact with epoxy/PU resins and hardeners can cause sensitization in some people handling this type of product. Where this occurs, seek medical advice before continuing use.

TECHNICAL SERVICES:

A trained **GREEN SEAL CHEMICALS** representative is available to assist in the preparation of specifications, and the resolution of concrete problems in the field.

SEAL CHEMICALS