

Deckrete MF

Self-Smoothing Polyurethane Flooring System (3 – 6 mm)

Description

Deckrete MF is a high-performance, water-dispersed, self-smoothing polyurethane flooring system designed to provide seamless, hygienic, and durable flooring for demanding industrial environments.

The system delivers smooth, matt finish with excellent resistance to mechanical wear, thermal shock, and aggressive chemicals, making it suitable for both wet and dry process areas.

Advantage

- Excellent resistance to heavy mechanical loads and abrasion
- Superior chemical resistance
- Hygienic, non-tainting surface
- Seamless and easy to clean (steam cleanable)
- Fast curing with minimal downtime
- Moisture-tolerant application
- High impact and thermal shock resistance
- Non-dusting finish
- Suitable for food processing environments

HACCP Compliance

Deckrete MF is suitable for use in food processing and handling environments:

- Comply with HACCP (Hazard Analysis and Critical Control Points) requirements
- Non-tainting and does not support bacterial growth
- Seamless surface reduces contamination risk
- Suitable for hygienic and wet processing zones

(Subject to correct installation and maintenance)

Uses

- Food & beverage processing plants
- Meat, poultry, and seafood processing areas
- Diaries, breweries, and wineries
- Soft drink and bottling plants
- Sugar refineries and confectionery production
- Chemical and pharmaceutical facilities



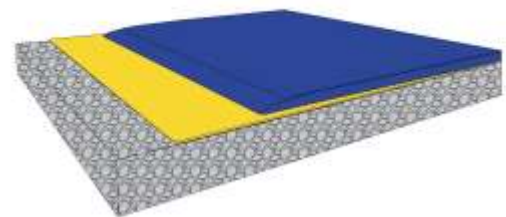
Standard Colour



Appearance

- Finish: Smooth, self-levelled
- Surface: Matt (option for anti-slip texture)

System Build-Up



Layer	Product	Consumption
Primer	Deckrete EP/Scratch coat	~0.2 kg/m ² / 2kg per m ²
Body Coat	Deckrete MF (3–6 mm)	~8.0 kg/m ² @ 4 mm

Performance Data

Property	Standard	Value
Compressive Strength	ASTM C109	60 N/mm ²
Flexural Strength	ASTM D790	18 N/mm ²
Tensile Strength	ASTM D638	10 N/mm ²
Adhesion Strength	ASTM C321	>2.5 N/mm ²
Dynamic Modulus	ASTM C597	14,500 N/mm ²
Abrasion Resistance	ASTM D1044	1210 mg
Thermal Expansion	ASTM C531	$3.5 \times 10^{-5} / ^\circ\text{C}$
Thermal Conductivity	BS 874	0.91 W/m [•] °C
Water Absorption	CP.BM 2/67/2	Nil
Temperature Resistance	—	Dry: -5°C to +90°C

Slip Resistance

Deckrete MF can be supplied in both smooth and anti-slip finishes depending on site requirements:

Test Standard	Classification
DIN 51130	R10 – R12 (with anti-slip profile)
BS 7976-2 (Pendulum Test)	Low to High slip potential (depending on finish)

- Slip resistance can be tailored using broadcast aggregates
- Recommended anti-slip finish for wet processing areas

Fire Performance

Deckrete MF complies with fire performance requirements for internal flooring systems:

Standard	Classification
EN 13501-1	Bfl-s1

- Low flame spread contribution
- Low smoke emission
- Suitable for industrial and commercial buildings

Design Life

10 – 15 years (subject to proper installation and maintenance).

Substrate Requirements

- Minimum compressive strength: 25 N/mm²
- Clean, sound, and free from contaminants
- Moisture ≤ 75% RH
- Surface regularity: BS 8204 SR2

Application Conditions

- Substrate temperature: +10°C to +30°C
- Relative humidity: ≤ 85%

Curing Time (at 35°C)

Condition	Time
Light Traffic	12 hours
Full Traffic	24 hours
Full Chemicals Cure	5 days

Packaging

Deckrete MF is supplied as a three-component system:

Component	Description	Weight
Part A	Resin	3 kg
Part B	Hardener	3 kg
Part C	Filler	14 kg

Total Kit Size: 20 kg

Chemical Resistance

Resistant to a wide range of industrial chemicals including acids, alkalis, oils, and solvents. (Refer to Chemical Resistance Chart for detailed performance)

Joint Treatment

- Expansion joints must be continued through the system
- Movement joints must be properly detailed

Maintenance

- Clean using rotary scrubbers
- Use neutral or mild alkaline detergents

Health & Safety

For further information, refer to the product Material Safety Data Sheet, available upon request.

Technical Support

TOPKRETE offers a comprehensive range of high performance, quality products. TOPKRETE offers a technical support package to specifiers and contractors which include assistance with product selection and technical advice from staff with unrivalled experience in the industry.

Additional Information

Topkrete manufacturers and offers a wide range of complementary products which includes waterstop, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spelled concrete are available.

Warranty

Topkrete Sdn Bhd warrants that the products manufactured by it shall be free from material defects and will conform to formulation standards and contain all components in their proper proportion. Should any of the products be proven defective, the liability to TOPKRETE SDN BHD shall be limited to replacement of the material proven to be defective, and TOPKRETE SDN BHD shall in no case be liable otherwise or for incidental or consequential damages. **TOPKRETE SDN BHD MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.** User shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith.

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Product Certified by HACCP