

Deckrete HF

High Performance Self-Smoothing, Anti slip Polyurethane Flooring System (6 – 12 mm)

Description

Deckrete HF is a Four-component, water-dispersed polyurethane resin flooring system designed to deliver a seamless, hygienic, and high-performance floor finish for demanding industrial environments.

It provides an anti-slip, matt surface with excellent resistance to chemicals, abrasion, impact, and thermal shock, making it ideal for food and industrial processing areas.

Uses

Deckrete HF is recommended for medium to heavy-duty environments, including:

- Food & beverage processing plants (HACCP zones)
- Meat, poultry & seafood processing
- Dairy & cold rooms
- Breweries & bottling plants
- Pharmaceutical & chemical industries
- Warehouses & production facilities

Advantage

- **Hygienic & HACCP Compliant** – Suitable for food-grade environments
- **Seamless & Non-Dusting** – Eliminates contamination traps
- **Fast Installation & Rapid Cure** – Minimizes downtime
- **Moisture Tolerant** – Can be applied on damp substrates
- **Excellent Chemical Resistance** – Against acids, alkalis & cleaning agents
- **High Mechanical Strength** – Impact and abrasion resistant
- **Thermal Shock Resistant** – Suitable for hot wash-down areas
- **Low VOC & Non-Tainting** – Safe for food processing
- **Easy Maintenance** – Steam cleanable



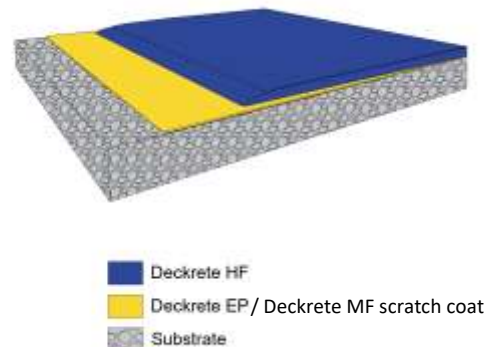
Appearance

- Finish: Anti Slip
- Color: Standard industrial colors (custom available)
- Thickness: 6-12 mm

Technical Data

Property	Value	Standard
Compressive Strength	≥ 60 N/mm ²	ASTM C109
Flexural Strength	≥ 18 N/mm ²	ASTM D790
Tensile Strength	≥ 10 N/mm ²	ASTM D638
Adhesion to Concrete	> 2.5 N/mm ² (Concrete failure)	ASTM C1583
Abrasion Resistance	≤ 1210 mg (Taber)	ASTM D1044
Water Absorption	Nil	CP.BM 2/67/2
Thermal Expansion	3.5 × 10 ⁻⁵ /°C	ASTM C531
Thermal Conductivity	0.91 W/m°C	BS 874

System Design



Specification Detail	Coverage
Deckrete EP/ Deckrete MF Scratch coat	0.2 kg/m ² 2 kg/m ²
Deckrete HF (8mm)	16.8 kg/m ²

Substrate Requirements

- Concrete strength: $\geq 25 \text{ N/mm}^2$
- Moisture: $\leq 75\% \text{ RH}$
- Surface must be:
 - Clean
 - Dry or SSD condition
 - Free from oil, grease, laitance
- Surface profile: Mechanical preparation required
- Level tolerance: BS 8204 SR2

Slip Resistance

- Available with anti-slip profile
- Typical rating: R10 – R12 (DIN 51130) depending on system finish

Fire Performance

- Class: Bfl-s1 (EN 13501-1)
- Low smoke emission and suitable for enclosed environments

Temperature Resistance

- Dry: -5°C to $+90^\circ\text{C}$
- Wet: -5°C to $+80^\circ\text{C}$
- Resistant to thermal cycling and hot water wash-down

System Build-Up

Layer	Product	Consumption
Primer	Deckrete EP / Scratch Coat (MF)	$\sim 0.2 \text{ kg/m}^2$ or 2kg per m ²
Body Coat	Deckrete HF (6 mm)	$\sim 12.0 \text{ kg/m}^2$

Packaging

- Component A: 3 kg
- Component B: 3 kg
- Component C: 14 kg
- Component D: 12 kg
- Total: 32 kg set

Curing Time (at 30°C - 35°C)

Stage	Time
Light Traffic	~ 12 hours
Full Traffic	~ 24 hours
Full Chemical Cure	~ 5 days

Design Life

- Expected service life: 10 – 15 years (depending on traffic, maintenance, and exposure conditions)

Chemical Resistance

Resistant to a wide range of:

- Organic & inorganic acids
- Alkalis
- Oils & fats
- Cleaning chemicals

(Refer to detailed chemical resistance chart for confirmation)

Maintenance

- Regular cleaning using rotary scrubber + neutral detergent
- Suitable for steam cleaning and pressure washing

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.

Health & Safety

- Refer to MSDS before use
- Use appropriate PPE (gloves, goggles, respirators)
- Ensure adequate ventilation during application

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 spalled 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