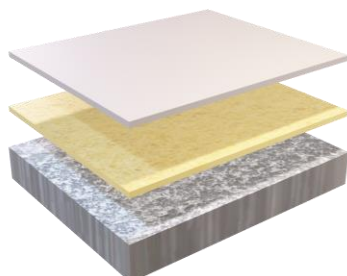


# ROKRETE PU-HF

5 components, PU Screed, trowel applied 6-12 mm, solvent free, coloured.

## SYSTEM BUILD UP



- Top Coat : ROKRETE PU-HF
- Primer : ROKRETE scratch coat, FLORPRIME 180
- Substrate : Concrete, cementitious crete, magnesite creed, other moisture sensitive substrate.

## FEATURES

- **High chemical resistant** – resist organic acids, dilute mineral acids, vegetable and animal fats, petroleum oils and most solvents.
- **Wide service temperature** – -25°C to +100°C (6mm); -40 to +120 °C (9mm).
- **High abrasion & impact resistant** – resist mechanical wear and heavy vehicular traffic.
- **Seamless** – easy to clean and maintain.
- **Fast curing** – can withstand foot traffic in 12 to 20 hours after the application.
- **Anti-microbial** – reduce bacteria by 99 %.
- **Solvent free** – nonflammable, no tainting to food, no fire hazard.

## APPLICATION AREAS

- **ROKRETE PU-HF** is heavy duty PU screed specifically designed for applications where flooring undergoes constant exposure to aggressive chemicals, high-temperature cleaning, and mechanical stresses.
- It is recommended to be use at food & beverage production facilities, dairy production, warehouse and distribution center, chemical and minerals processing plants, and wastewater treatment plants, healthcare and medical areas.

## PHYSICAL PROPERTIES

Product type	5 components PU screed, solvent free.
Color	Flortech standard
Finish	Semi-gloss
Density, mixed	2.25 g/cm <sup>3</sup> @ 25 °C

## PACKAGING

Components	Part A	Part B	Part C	Part D	Color Paste
<b>TOTAL : 32.175 kg</b>	3 kg	3 kg	14 kg	12	0.175 kg

PERFORMANCE DATA		
Adhesive strength	>1.5 N/mm <sup>2</sup>	EN ISO 4624
Flexural strength	≥ 20 Nm	EN 13892-2
Compressive strength	>56 N/mm <sup>2</sup>	EN 13892-2
Impact resistance	≥ 20 Nm	EN ISO 6272
Abrasion resistance	0.1g loss per 1000 cycles	Taber (1 kg load using CS17 wheels)
Shore D hardness	D 76 to 81 after 30 days	EN ISO 868
Heat resistance	-25 °C to +100°C (6mm); -40 to +120°C (9mm)	
Fire resistance	EN 13501-1 (PART 1)	Bfl – s1
Slip resistance	BS 7976-2 (4S rubber slider)	Dry > 40

APPLICATION GUIDE					
Mixing ratio (by weight)	Part A 3	Part B 3	Part C 14	Part D 12	Color Paste 0.175
Working time	27 – 30 minutes @ 15°C 20 – 24 minutes @ 25°C				
Application temperature	10-30 °C (min 3 °C above dew point)				
Material consumption	2.3 kg/m <sup>2</sup> @ 1 mm 13.8 kg/m <sup>2</sup> @ 6 mm				
Following coating	After 12 – 24 hours @ 25°C				
Curing time	@ 25°C				
	Light traffic			After 18 – 24 hours	
	Heavy traffic			After 3 days	
	Full chemical curing			After 7 days	

SUBSTRATE REQUIREMENT & PREPARATION
<ul style="list-style-type: none"> <li>Concrete substrate must be clean, free of laitance and contaminants and have tensile strength of 1.5 N/mm<sup>2</sup> minimum.</li> <li>New concrete need to be a minimum curing period of 28 days.</li> <li>Repair holes and cracks using <b>FLORPRIME 110</b>, ensuring proper grading and leveling as necessary.</li> <li>Prepare the concrete surface through diamond grinding or shot blasting to achieve an optimal surface profile, removing surface laitance, coatings, and any loose materials.</li> <li>Prepare grooves with a minimum width of 3 mm and a depth of 5 mm along all edges of the designated area, including around drains and columns where <b>ROKRETE PU-HF</b> will be applied.</li> </ul>

#### APPLICATION METHOD: Primer

- Apply an epoxy primer, such as **FLORPRIME 180** or a **ROKRETE PU-MF scratch coat** (1mm thickness), using a roller or trowel on the grinded surface.
- If the surface is poor or porous, consider a second coat of primer.
- To improve inter-layer adhesion, lightly sprinkle 0.2 – 0.5 mm quartz sand (approximately 600 g/m<sup>2</sup>) while the primer is still wet.
- If a second coat of primer is necessary, perform this step on the second coat.

#### APPLICATION METHOD: ROKRETE PU-HF

- Prior to starting the application, ensure that the material temperature aligns with on-site conditions. The relative humidity should not exceed 85%.
- Begin by adding the color paste to component A. Use a helical mixer at a speed of 300-600 rpm to mix and disperse the color paste for about 1 minute until the mixture is homogeneous.
- Pour component B into the mix and continue to mix for 1.5 to 2 minutes until the blend is mixed thoroughly.
- Gradually add component C to the mix while the mixer is running.
- Then, add component D into the mix and move the mixer from side to side and top to bottom, ensuring thorough mixing by scraping the sides of the mixing vessel (2 – 3 minutes).
- Transfer the mixture to a new, clean container and mix for an additional 1 minute.
- Pour the prepared mix onto the designated floor and spread it evenly to achieve the required thickness, using a pin rake or notched trowel.
- Maintain continuity of wet material between pours (max. 5 – 6 minutes). Apply using an appropriate power float or hand troweling method.
- Lastly, use spike roller to release the entrapped air or bubbles.

#### STORAGE & SHELF LIFE

Shelf Life	9 months in closed original container.
Storage	Dry, well-ventilated space and avoid direct sunlight @ 10 – 30 °C.

#### OVERCOATING

- The second coat can be applied within 24 hours without the need for grinding.
- If more than 24 hours, light grinding is necessary before applying the overcoat.

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