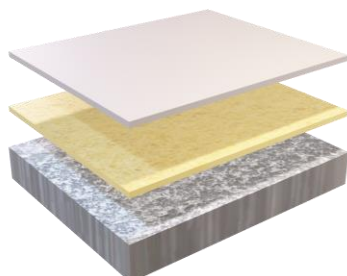


ROKRETE PU-HF

5 components, PU Screed, trowel applied 6-9 mm, solvent free, coloured.

SYSTEM BUILD UP



- Top Coat : ROKRETE PU-UD
- 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** – -15°C to +100°C (6mm); -25 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 a heavy duty 5 component PU screed which provides excellent chemical and mechanical resistance.
- It is recommended to use on area which undergoes constant exposure to chemical, high heat cleaning and mechanical abuse such as chemical and mineral processing plant, food & beverages production facilities and warehouse etc.

PHYSICAL PROPERTIES

Product type	5 components PU screed, solvent free.
Color	Flortech standard
Finish	Semi-gloss
Density, mixed	2.16 g/cm ³ @ 25 °C

PACKAGING

Components	Part A	Part B	Part C	Part D	Color Paste
TOTAL : 31.175 kg	3 kg	3 kg	14 kg	11	0.175 kg

PERFORMANCE DATA		
Adhesive strength	>1.5 N/mm ²	EN ISO 4624
Flexural strength	≥ 20 Nm	EN 13892-2
Compressive strength	>56 N/mm ²	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	-40 °C to +120°C (6mm); -45 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 11	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 ² @ 1 mm 13.8 kg/m ² @ 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
- Concrete substrate must be clean, free of laitance and contaminants and have tensile strength of 1.5 N/mm² minimum. - New concrete need to be a minimum curing period of 28 days. - Repair holes and cracks using FLORPRIME 110, ensuring proper grading and leveling as necessary. - Prepare the concrete surface through diamond grinding or shot blasting to achieve an optimal surface profile, removing surface laitance, coatings, and any loose materials. - 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 ROKRETE PU-UD will be applied.

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/m²) 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-UD

- 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.

DISCLAIMER

Although the information provided here is accurate and reflects our best knowledge and experience, please note that we do not provide any warranty, express or implied, regarding the recommendations made by us, our representatives, or distributors. This is because the conditions of product use and the level of professional competence required for its application are beyond our control.