## ROKRETE PU-MF

## FLORTECH

FLOORING TECHNOLOGY

4-comp. PU screed, trowel applied 3-4 mm, solvent-free, coloured.
ROKRETE PU-MF is used in situations subject to constant exposure to aggressive chemicals, high heat cleaning and mechanical abuses such as dairy, food \& beverage production facilities, warehouse and distribution centers, chemical and minerals processing plants and waste treatment plants.

| TECHNICAL DATA |  |
| :---: | :---: |
| COMPRESSIVE STRENGTH |  |
| EN 13892-2 | >50 N/mm ${ }^{2}$ |
| ADHESIVE STRENGTH |  |
| EN ISO 4624 | $>1.5 \mathrm{~N} / \mathrm{mm}^{2}$ |
| SHORE HARDNESS |  |
| EN ISO 868 | D 75 to 80 after 30 days |
| HEAT RESISTANCE |  |
| $5^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}(3 \mathrm{~mm}) ;-15$ to $+90^{\circ} \mathrm{C}(4 \mathrm{~mm})$. |  |
| IMPACT RESISTANCE |  |
| EN ISO 6272 | $\geq 15 \mathrm{Nm}$ |
| FLEXTURAL STRENGTH |  |
| EN 13892-2 | >20 N/mm ${ }^{2}$ |
| TENSILE STRENGTH |  |
| EN 196 / ASTM C109 | $>10 \mathrm{~N} / \mathrm{mm}^{2}$ |
| FIRE RESISTANCE |  |
| EN 13501-1 (PART 1) | $\mathrm{Bf}_{\mathrm{fl}}-\mathrm{s} 1$ |
| SLIP RESISTANCE |  |
| BS 7976-2 (4-S rubber slider) | Dry>38 |
| ABRASION RESISTANCE |  |
| Taber (1 kg load using CS17 wheels) | 0.1 g loss per 1000 cycles |



Prepared substrate


Green


Cream


Buff


Grey


Red Oxide


Light Grey
**The applied colours may differ from the examples shown above.

| TECHNICAL DATA |  |  |
| :--- | :--- | :--- |
| Density | at $25^{\circ} \mathrm{C}$ | $1.89 \mathrm{~g} / \mathrm{cm}^{3}$ |
| Packaging size | total 4 components <br> A : B $: \mathrm{C}:$ Color Paste | 20.175 kg <br> $(3: 3: 14: 0.175) \mathrm{kg}$ <br> Mixing ratio (in parts by weight) |
| A : B : C : Color Paste | $3: 3: 14: 0.175$ |  |
| Working time | at $15^{\circ} \mathrm{C}$ <br> at $25^{\circ} \mathrm{C}$ | $27-30$ minutes <br> $20-24$ minutes |
| Application temperature | min $3{ }^{\circ} \mathrm{C}$ above dew point | $10-30^{\circ} \mathrm{C}$ |
| Material consumption <br> (PU Mortar) | per mm <br> for $3-4$ mm | $1.9 \mathrm{~kg} / \mathrm{m}^{2}$ <br> $5.7-7.6 \mathrm{~kg} / \mathrm{m}^{2}$ |
| Overcoating | at $25^{\circ} \mathrm{C}$ | $12-24$ hours <br> Cure time to withstand <br> at $25^{\circ} \mathrm{C}:$ light traffic <br> $:$ heavy traffic <br> $:$ full chemical curing |
| Storage | $12-20$ hours <br> $36-48$ hours <br> 7 days |  |
| Shelf life | Store at dry conditions, $10-30^{\circ} \mathrm{C}$, avoid direct sunlight |  |



## APPLICATION METHOD

## 1. Substrate Preparation

Concrete substrate should be clean and dry with compressive strength of 25 MPa and have a minimum tensile strength of 1.5 MPa .

New concrete need to be cured for at least of 28 days.
Repair holes and cracks etc. with FLORPRIME 110. Ensure proper grading and levelling where required.

Prepare concrete surface by diamond grinding or shot blasting to ensure good surface profile for mechanical interlocking by removing surface laitance, coating, and all loose materials.

Prepare grooves of 3 mm width and 5 mm depth minimum inside all edges of the area plus around drains, columns etc. where ROKRETE PU-MF will be applied.

## 2. Primer

Apply an epoxy primer such as FLORPRIME 180 or ROKRETE PU-MF scratch coat of 1 mm thickness by roller or trowel to the surface that has been grinded. If the surface is poor or porous, a second coat of primer may be required. To improve inter-layer adhesion, sprinkle 0.2-0.5 mm quartz sand lightly (approx. $600 \mathrm{~g} / \mathrm{m} 2$ ) while the primer is still wet. If two coats of primer are necessary, this should be done on the second coat.

## 3. Application

The material temperature must be close to the site conditions before starting the application.

Firstly, add the colour paste into component A. Mix to disperse the colour paste (1 minute) until homogeneous using a helical mixer at a speed of 300-600 rpm. Add component $B$ and mix (1.5 to 2 minutes) until homogeneous.

Add component $C$ slowly to the mix while the mixer is running. Move the mixer from side to side and top to bottom and remember to scrap the sides of the mixing vessel to ensure good mixing ( $2-3$ minutes).

Pour the mixture to a new clean container and mix for another 1 minute.

Pour the mix on to the prepared floor and spread over the floor area at the required thickness using a pin rake or notched trowel.

Make sure to maintain continuity of wet material between pours (max. 5-6 minutes). Apply by appropriate power float or by hand troweling.

## 4. Overcoating

Overcoating must be done within 24 hours after application of ROKRETE PU-MF. If longer than 24 hours, it is required to lightly grind the surface before over-coating.

## 5. Care and Maintenance

We recommend that floor is clean regularly with a mildly alkaline based cleaning detergent with the use of a rotary scrubber.


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