

ROCK REPAIR FC

Fine Pore Sealer and Finishing Coat

PRODUCT DESCRIPTION	Rock Repair FC is a cementitious, silica fume containing, polymer modified one-component pore sealer and finishing coat. Suitable for tropical conditions.	
USES	<p>Rock Repair FC can be used as a:</p> <ul style="list-style-type: none"> ☐ Pore sealer/finishing coat on mineral substrates. ☐ Thin layer rendering on horizontal and vertical areas in building and civil engineering construction, internal finishing etc. ☐ Levelling mortar on uneven substrates, and profiled concrete surfaces. ☐ Repair mortar to fill honeycombs, pores etc. on any kind of concrete construction. ☐ To repair small defects on edges and joint sides, to form and finish joints and coverings. 	
ADVANTAGES	<ul style="list-style-type: none"> ☐ One component: only the addition of water is required. ☐ Easy to mix, apply and finish. ☐ Adjustable consistency. ☐ Good mechanical strengths. ☐ Spray able with wet-spray method. <p>Non-corrosive, non-toxic</p>	
PRODUCT DATA		
Form	Powder	
Color	Grey	
Packaging		
Storage	Dry conditions and away from sunlight.	
Shelf Life	12 months from date of production if stored properly in original unopened packing	
Technical Data		
Density	Fresh mortar approx. 1.9 kg/l	
Mechanical strength (28 days)	Compressive strength	30 – 35 N/mm ²
	Flexural strength	4 – 6 N/mm ²
	Adhesion	1.5 – 2.5 N/mm ² (on concrete or repair mortar)
Modulus of Elasticity	Approx. 15'400 N/mm ² (static)	
Coefficient of Thermal Expansion	Approx. 11X10 ⁻⁶ per °C	
Index of Water Vapour Diffusion (μH₂O)	120	
Index of CO₂ Diffusion (μCO₂)	350	
Temperature	Minimum 5°C	
Thickness	Minimum 0.5 mm	
	Maximum 5.0 mm per application	
APPLICATION	Add 26 – 28% water to the dry powder or 6.5 – 7.0 liter water per 25 kg bag, depending on consistency required.	
Mixing Ratio		
Surface Preparation	Substrate must be sound, free from dust, loose particles, cement laitance, curing compounds, oil, grease or any other contamination.	
Mixing	Pour water in given quantity into the mixing container. Add powder while mixing continuously. Use low speed electric mixers (max. 500 RPM) for 3minutes avoiding entrapping of air. By adding the powder in portions, the desired application consistency can be obtained.	

Application	Prewet substrate to saturated surface dry condition (SSD) prior to application. Rock Repair FC can be applied by trowel, spatula or wet spray. As soon as the mortar has started to set it can be smoothed by wooden or synthetic float, Styrofoam block or sponge. No additional water must be used as it may lead to discoloration, if not evenly applied.
Curing	Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48h, hessian or a suitable water based curing compound is recommended. Do not commence fogging until initial set has been reached typically 1-2 hours.
Remarks	<ul style="list-style-type: none"> □ Rock Repair FC should not be used at temperature below 5°C. □ At ambient temperatures above 35°C, the material should be stored in the shade. Use chilled water for mixing
Cleaning	Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.
Pot Life (25 °C)	35 - 45 minutes.
SAFETY INSTRUCTIONS	Normal precaution, as with any cementitious materials, should be taken. In contact with eyes or skin product may cause irritation. In case of contact rinse with plenty of water and seek medical help.
Safety Precautions	
Ecology	Do not dispose of into water or soil but according to local regulations.
Transport	Non-hazardous.
Toxicity	Non-Toxic under relevant Swiss health and safety codes.



Al-Obour Buildings - Salah Salem Road - Nasr City - Cairo - Egypt.
10th Of Ramadan City.



info@CityChem.net



@City_Chem



City Chem



+202 240 456 35



+2010 277 810 11



+2010 672 213 44

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CONSTRUCTION