

ROCK TOP 221 L

Fibre Reinforced, Polymer Modified Repair Mortar

Product Description	ROCK TOP 221 L is a cementitious, polymer modified, 2-component repair mortar with added polyamide fibres. When mixed together, the components react to form a high strength repair and levelling mortar for concrete Suitable for use in tropical and hot climatic conditions
Uses	ROCK TOP 221 L is used as an economical and easy to use concrete repair mortar, suitable for <ul style="list-style-type: none"> ■ Repairs to basements, slabs, water tanks and swimming pools etc. ■ Making good damaged edges ■ Repairing honeycombing and concrete repair in general
Advantages	ROCK TOP 221 L provides the following beneficial properties <ul style="list-style-type: none"> ■ Rapid strength gain ■ Good water and oil resistance ■ High final strengths ■ High abrasion resistance ■ Good adhesion ■ Non toxic - suitable for contact with drinking water
Test Report	WRC, Water Byelaws Scheme, (BS 6920), UK DWI, Drinking Water Inspectorate approval for contact with potable water, UK
Product Data	
Type	Cementitious powder, polymer dispersion
Form	Component A: White Liquid Component B: Grey Powder
Packaging	35 kg set (A+B)
Storage Condition	Store in a dry area between 5°C and 35°C. Protect from direct sunlight
Shelf life	12 months minimum from production date if stored properly in original unopened packaging
Technical Data	
Mixing ratio	Component A : B = 1: 6 (5kg of liquid A + 30kg of powder B)
Pot life (30°C)	Approximately 15 minutes
Density	Approximately 2.00 kg/ltr (Fresh mortar)
Mechanical strengths (28 days),	Compressive strength 40 - 45 N/mm ² Flexural strength 12 - 15 N/mm ² Adhesion > 2.0 N/mm ² (concrete failure)

Modulus of elasticity (static)	Approximately 20'000 N/mm ²
Co-efficient of thermal expansion	Approximately 14.10 ⁻⁶ m/m per °C
Index of H₂O vapour diffusion	μH ₂ O - approximately 500
Index of CO₂ diffusion	μCO ₂ - approximately 40,000
Yield	Approximately 17.5 litres per 35 kg set
Layer Thickness	Minimum 10 mm, Maximum 20 mm per application
Temperature	Minimum 8°C, Maximum 40°C (substrate)
Application Details	
Substrate preparation	Substrate must be sound, free from dust, loose particles, cement laitance, curing compounds, oil, grease or any other contamination. Metal surfaces (steel and iron) should be free from rust, scale, oil and grease. Pre-wet substrate to a saturated surface dry condition (SSD) prior to application. Avoid puddles and standing water.
Mixing	Stir component A (liquid) thoroughly before pouring into a clean mixing container. Add component B (powder) slowly while mixing continuously. Use low speed electric mixers (maximum: 500 rpm) for 3 minutes avoiding entrapment of air. By adding the powder in portions, the desired application consistency can be obtained.
Application	Use a slurry made from ROCK TOP 221 L (A:B = 1:3 by volume) as a bonding agent. While the bonding agent is still wet, apply ROCK TOP 221 L to a maximum thickness of 20 mm and compact by trowel. For a thickness greater than 20 mm, apply in several layers. As soon as the mortar has started to set it can be smoothed by wooden or synthetic float, styrofoam block or sponge
Curing	Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hours or a suitable water based curing compound. .Do not commence fogging until final set has been reached
Cleaning	Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.
Remarks	<ul style="list-style-type: none"> ■ Do not add water for mixing ■ At ambient temperatures above 35°C, ROCK TOP 221 L components ■ A&B should be stored in an airconditioned shed .
Notes	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Safety

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Technical Department

The Information Herein is Based on Our Present Knowledge and Experiences. This Information Merely Describes the Properties of Our Products but No Guarantee In the legal Sense Shall Be Implied. We Recommend Testing Our Products As To Their Suitability For Your Envisaged Purpose Prior To Use

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