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MasterRoc® STS 3210

Spray applied, single component, polymer modified watertight mortar

DESCRIPTION

MasterRoc STS 3210 is a one-component polymer modified watertight mortar for spray-application on concrete. The product is applied by the dry spray method with water mixed in the spraying nozzle and impacts the substrate as a micro mortar. The product sets within 5-10 minutes and will progressively increase in tensile strength and bond strength over the next hours, days and weeks. The product has excellent bonding and is providing a smooth surface which ideal as substrate for **MasterSeal 345** spray applied waterproofing membranes.

FIELDS OF APPLICATION

The product is suitable for:

- Sealing of damp areas
- Control of small water ingress
- Smoothening layer for waterproofing membranes

In mining:

- Anti-weathering and sealing
- Ventilation improvement by reduced surface friction
- Corrosion protection of standing steel support
- Abutment for low pressure injection

FEATURES AND BENEFITS

- No toxic components.
- No classification needed for transport.
- Ready for use.
- Fast setting, rapid increase in strength development.
- Good bond to concrete
- Simple spray application with dry spray equipment.
- Allows several 100m conveyance distance between gun and nozzle. Possible to spray at a conveyance distance of over 100m between the hopper and nozzle.
- Rapid set-up; allows stop and start; minimal cleaning, no material waste

PACKAGING

MasterRoc STS 3210 is supplied in 25kg bags.

TECHNICAL DATA*

Form	Powder
Colour	Grey
Consumption per m² and mm	Approx. 1.5kg
Mixed density BS EN 1015 Part 6	1.9kg/litre
Application thickness	5 to 20 mm
Application temperature	+5°C to +45°C
Compressive strength BS 13892 Part 2	
1 hour	>1N/mm²
6 hours	>3N/mm²
1 day	>7N/mm²
7 days	>15N/mm²
28 days	>22N/mm²
Flexural strength BS 13892 Part 2	
1 hour	>0.5N/mm²
6 hours	>1.8N/mm²
1 day	>3Nmm²
7 days	>7N/mm²
28 days	>8N/mm²
Pull off strength ASTM D4541	>1.5N/mm²

CONSUMPTION

Consumption depends on the substrate. Typically 1.5kg of dry powder per square meter, per mm thickness can be used as a guideline.

APPLICATION PROCEDURE

MasterRoc STS 3210 should be applied by the dry spray method using equipment, such as the Reed SOVE gunite machine. (The SOVA can also be used but is not as efficient for these applications).

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MasterRoc® STS 3210

Recommended set up for SOVE (SOVA)

- 18 Pocket Feed Bowl
- Dust Suppression system
- BASF 32mm Straight Spraying Nozzle
- Utilise an 18 hole water ring
- Spraying hose DIA.32 mm

The Reed SOVE or other suitable spray equipment should be fitted with a dust collection filter as shown above.

The supplied compressed air has to run through a de-watering device to avoid humidity and consequent material build-up in the equipment and hoses.

NOTE:
Under no circumstances should be sprayed without the addition of water at the nozzle.

SURFACE PREPARATION

Although the product is fast setting and able to seal off small water leakages, heavy water inflow has to pre-treated by injection or drained.

CLEANING

All equipment can be cleaned by blowing compressed air through the system (aiming output into water in order to minimize extraneous dust generation). The nozzle itself should be inspected and cleaned out with water after every break in the spraying process. During continuous application there is no need for nozzle cleaning as long as water and air supply is sufficient (volume, pressure) and correctly adjusted.

STORAGE

MasterRoc STS 3210 shall be stored in original, unopened bags out of direct sunlight and below +40°C.

SAFETY PRECAUTIONS

The product has no toxic components. The use of gloves, eye protection and a dust mask when spraying are recommended.

For further information refer to Material Safety Data Sheet.

* Properties listed are based on laboratory controlled tests.

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BASF_CC-UAE/Roc_STS-3210_05_15/v2/07_16

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