



MAXRITE[®] - S

SINGLE COMPONENT MORTAR FOR THE REPAIR OF LARGE SURFACES BY DRY METHOD SPRAYING

DESCRIPTION

MAXRITE – S is a normal setting, single component mortar, made up of special cements, selected aggregates and special resins, especially designed for the application over large surfaces. Its formulation allows it to be applied using a dry-mix spray method, over substrates such as concrete, concrete blocks, mortars, stone, etc.

USES

- Restoration and lining of underground jobs, tunnels, galleries.
- Retaining walls, inclines.
- Bridges and structures.
- Residential and industrial buildings.
- Floor thickness increase.

ADVANTAGES

- Single component. Only needs water for the mix.
- Good bonding over traditional construction substrates.
- Its normal setting time allows it to harden without tensions.
- Excellent workability.
- Good waterproofing properties.
- Good resistance to sulphates, ice and de-icing salts.
- Linings done with MAXRITE – S protect the substrate against carbonation.
- Its low elasticity modulus and normal setting allow stress free hardening, which reduces the risk of scaling.
- Designed for dry-mix spray method, with low rebound percentage and scarce dust formation.
- Good thixotropy. Allows applications up to 5 cm. thick per layer.
- Non toxic.
- Can also be sprayed by wet method.

APPLICATION INSTRUCTIONS

Preparation of the substrate: The substrates should be structurally sound and be free of grease, form stripping oils, loose particles, etc. If any reinforcement steel bars are present, they should be adequately treated, eliminating the rust and neutralising oxides and protecting with MAXREST PASSIVE (Technical Bulletin N° 12). The minimum temperature of the substrate and atmospheric conditions should be above 8 °C.

Priming: Generally, priming will not be necessary. For special applications engineers on site may consider the application of a primer such as the acrylic bonding agent MAXBOND (Technical Bulletin N° 10) or the epoxy type MAXEPOX BOND if required. (Technical Bulletin N° 69).

Mixing. For mixing manually, use 3 – 3.25 litres of clean water, free of contaminants per each 25 kg. of material. (12% - 13% by weight). For dry spraying, the water required is much less, (approximately between 9 and 10%).

Placing. Spread manually by trowel or spray the mortar over the substrate. Do not exceed the maximum thickness of 5 cm. per layer to prevent slumping. If the designated finish is by sponge, it must be done immediately after placing the last layer, whether by trowel or spray.

ADDITIONAL RECOMMENDATIONS

The applications by dry-mix spray method, must be done by specialist applicators. MAXRITE – S has been designed to be poured directly into the mixer. A specialist gunner will adjust the amount of water appropriately in order to obtain a compact lining , with uniform thickness and minimum rebound.

It is necessary to prevent excessively fast drying. Adopt the usual steps to improve the curing (water spray, etc.) or spraying a curing agent such as MAXCURE (Technical Bulletin N° 49). Protect also from the rain and frost during the first hours after the application. Do not apply at temperatures below 8 °C.

CONSUMPTION

Between 2 and 2.2 kg /m² per mm. thickness. For dry-mix spray method, consider between 5% and 10% increase, to allow for rebound loss.

PACKAGING

25 kg. bags and drums and 5 kg. cans.

STORAGE

12 months in a dry, covered place, in its original packaging.

TECHNICAL DATA

Colour (powder / hardened)	Light grey / Dark grey
Aggregates (mm)	0 – 3
Apparent density in powder form (gr/cm³)	1.3
Apparent density of the mix (gr/cm³)	2.1
Density of the hardened product (gr/cm³)	2.0
Setting (hours) (20 °C)	
Start	3 – 4
Finish	7
Compressive strength (Mixed with 12%) (kg/cm²)	Above 400
Flexural strength (Mixed with 12%) (kg/cm²)	Above 80
Compressive strength (Mixed with 9%) (kg/cm²)	Above 500
Flexural strength (Mixed with 9%) (kg/cm²)	Above 100
Adhesion to concrete (kg/cm²)	Above 20

GUARANTEE

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