

MasterRoc STS 1500 S

Pre-bagged cementitious, single component, structural mortar, usable with specific setting accelerator for wet and dry process shotcrete application.

Product description

MasterRoc STS 1500 S is a pre-bagged cementitious, single component, structural mortar, usable with specific setting accelerator for shotcrete application. The material guarantees a workability of at least 60 minutes at 20° C.

Packaging

MasterRoc STS 1500 S is available in 25 kg bag.

Dosage

19,5 kg/m² for cm thickness.

Storage

Keep the product in a sheltered, dry place and at a temperature between +5 and +35 ° C.

Technical Information	
Compressive strength, UNI EN 12190 at	
1 day	>20 MPa
2 days	>30 MPa
7 days	>40 MPa
28 days	>48 MPa
Flexural strength, UNI EN 196/1	>5 MPa
Modulus of elasticity, UNI EN 13412	26±2 GPa

Application sheet

Application temperature

MasterRoc STS 1500 S may be applied when the ambient temperature is between +5°C and +35°C. When the temperature is between 5 and 10°C mechanical strength development is slower; in any case it is advisable to keep the bags in a heated environment.

When the temperature is between 30°C and 35°C it is advisable to keep the bags in a cool place.

Preparing the mix

Dry method

The product must be inserted inside the hopper of the pump for dry application (rotor pump) as it is, depending on the application it is possible to evaluate the use of a special powder accelerator, to be inserted into the hopper together with the product, after mixing between two.

Wet method

The mixing can be carried out with a whisk, or in a cement mixer or in the mixer of the spraying machine and continue until a plastic, homogeneous and lump-free mixture is obtained. On the other hand, mixing by hand is not recommended. It is always necessary to mix the entire contents of each bag. Each 25 kg bag of MasterRoc STS 1500 S must be mixed with 3.75 ÷ 4.5 liters (15-18%) of water.

The mixture can then include the use of:

- wet setting accelerators: MasterRoc SA 166, MasterRoc SA 411;
- dry setting accelerators: MasterRoc SA 545;
- fibers: MasterFiber 156 SPA, MasterFiber 012, MasterFiber 018, MasterFiber 050.

Application

If the surfaces that receive the sprayed mortar are made of concrete, masonry, stones, etc.



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These must be properly prepared and be free of fats, oils, powders and incoherent parts. Deteriorated and detaching portions must be removed with appropriate operations such as sandblasting, hydro-sandblasting, hydro-demolition, as well as providing for wetting until a saturated substrate with a dry surface is obtained, without excess water.

Any presence of copious water infiltrations must be sealed with the use of suitable polyurethane and / or acrylic resins by means of punctual injections.

The application can be done by spraying with a suitable machine for wet or dry applications. In the case of wet applications, an accelerator is added during the spraying phase, dosed with a special pump.

Safety information

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

Other services

For additional technical information, brochures, references, technical reports and technical support please visit www.master-builders-solutions.com/it-it or alternatively contact infomac@masterbuilders.com.

Scan QR code to visit the product page and download the latest version of this technical data sheet and any additional documentation.



Disclaimer

Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.

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