

Estopatch SC100

Premixed Quick Hardening Mortar for Spray Mortar Application

Description

ESTOPATCH SC100 is a pre-mixed dry mortar for spraying, which consists of cement, size-controlled aggregates and special fast set additives. The sprayed mortar can achieve excellent bonding and early strength. The spraying of the mortar requires a system equipped with continuous mixing and pumping equipment.

Uses

Estopatch SC100 is suitable for the following applications:

- Mining application for stabilizing and strengthening (e.g: tunnel wall, underground workshop)
- Repair of existing tunnels
- Support for small cross-section tunnels
- Reinforcement for unconsolidated ground
- Ground support after TBM excavations

Advantages

- Fast-setting property
- Low dust generation and low rebound
- Excellent compressive strength, bond strength and flexural strength over the long term from early on
- Excellent resistance to inflow
- Compact system design and easy operation
- Enable for dry shotcrete
- Ease of use

Physical Properties

Initial Setting Time, min	< 10
Compressive Strength, N/mm ²	
12 hours	> 10
28 days	> 35

Application Instruction

Surface Preparation

Substrate must be structurally sound, clean and free from laitance, oil, dust, grease, paint, corrosion and any other deleterious substances. Steelwork should be thoroughly cleaned and primed.

Immediately prior the application of **Estopatch SC100**, the dust and any other deleterious substances should be removed by water or compressed air.

Mixing

Estopatch SC100 is required to use continuous mixing equipment for the application.

The mixing time shall depend on distance from inlet piece to nozzle. When the performance is not suitable, it is necessary to expand distance for mixing.

Dry process

Introduce both powder and water at the nozzle for mixing.

Mix design for dry process:

Estopatch SC100 : 25kg
Water : minimum 14%(3.5kg)
maximum 18% (4.5kg)

Placing

The mixed mortar should be sprayed continuously to a uniform required thickness. Multiple layers spraying is not recommended.

Curing

Estopatch SC100 is a cement based spray mortar. It must be appropriate cured immediately after finishing in accordance with good concrete practice or Estocure curing compound is recommended for this usage.

Note : Shrinkage cracks shall depend on the curing method. As such applicators need to be prepared to have a good curing product or method to mitigate shrinkage and cracks.

Cleaning

Estopatch SC100 should be removed from tools and equipment immediately after use with adequate water.

Packing & Size

Estopatch SC100	25 kg bag
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Yield

Estopatch SC100	13.7 litre per bag depending on water addition
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Coverage

Estopatch SC100	0.27 m ² per bag at 50mm thick
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These figures are for guidance only. Actual coverage will depend on the texture and porosity of the surface being covered.

Technical Support

Estop offers a technical support package to specifiers, end-user and contractors, as well as on site technical assistance.

Storage

Estopatch SC100 should be stored at room temperature. Keep dry out of direct sunlight.

If these condition are maintained and the product is unopened, then a shelf life of 6 months can be expected

Precautions

Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with plenty of clean water. In the event of prolonged irritation, seek medical advice. Since it content of solvent, stay it away from fire. Application areas must be well ventilated.

Additional Information

Estop manufactures and offer a wide range of complementary products which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.

Important Note

Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.