



SPARTYTE® COT-clay

MINERAL FORMULATION FOR THE REPAIR AND REPRODUCTION OF ANCIENT CLAY BRICKWORK

Description SPARTYTE® COT - clay is a ready-to-use product, which after mixing with ADHEWAT/RM gives a product that is perfect applicable with a trowel or spatula. The product is formulated in different types depending on the type of ancient clay brickwork to repair. The product is a mix of minerals and inorganic compounds. Hardening is based on the formation of hydrated mono-silicates. The rapid hardening allows finishing application between 5-15 minutes, and also the rapid application of several layers allow also thick applications in a short period.

Advantages

- The thixotropy of SPARTYTE® COT-clay contributes to an optimum adhesion, a very good vertical workability, on the inside of beams, and for overhead applications.
- No special tools required for the application.
- Absence of bleeding.
- Strong adhesion too the substrate.
- Shrinkage compensated.
- Maximum protection against chemical deterioration.
- Impermeable for water but water vapour permeable.
- Stabiliser for salts and absence of effloresces.

Field of application

- Repair, reproduction and sealing of old clay brickwork. Product can be formulated "ad hoc" for a specific job-site providing a sample of the brickwork is present in our lab.
- As general repair, consolidation and sealing.
- As waterproof joint mortar.
- As a thin plaster (application thickness circa 1-2 mm) on other plasters and substrates which are still in good shape. In the case substrates are too fragile or weak the application has to be preceded by a consolidation with impregnating products (consult our Technical Department).
- A thick repair providing the substrate has good mechanical and anchoring properties. If necessary the substrate has to be made rough.

Use

- Make sure that the substrate is rough to ensured adhesion on the substrate. If necessary the surface can be primed with ADHEWAT/RM or with SILAKTIV® (consult our Technical Department) or some preparation has to be made to roughen the surface.
- Mix only with ADHEWAT/RM. Amount liquid needed for a normal application: between 18 and 22% referring to the dry powder.
- Mix a sufficient quantity that can be applied in 5 to 10 min after mixing.
- The surface can be finished with a trowel, a sponge trowel or a spatula depending on the desired result.
- For an optimal finish the product can be floated with a wet sponge trowel 20 min after application.
- Do not wet the surface once the application is finished. The product does not burn out in even in warm climatic circumstances.



From Project to Jobsite

Storage Information according to 2003/53/CE:
12 months in original packaging, un opened, kept in dry and protected area between temperature from +5°C and +35°C.

Packaging

Pails of 15 kg for the powder
Cans of 5 kg ADHEWAT®/RM } This is an excess of liquid and not pre-packed! (use only the amount of liquid needed for the desired consistency!)

Technical properties (typical values)

- Setting time
 - At + 8° C: about 4 minutes
 - At + 20° C: about 10 minutes
 - At + 35° C: about 20 minutes
(product is faster at cold temperatures!).
- Water vapour permeability $\mu = 50$
- Elasticity modulus 16.500 N/mm²
- Strengths (average strengths are listed, the real value is an average of these values) N/mm²
 - Compression 14÷34
 - Flexural 5,5÷9,5
- Ultrasonic passage 3500 m/sec
- Adhesion > 1,5 N/mm²
- Dimensional stability The product is formulated to have a small expansion that compensates the drying shrinkage

Consumption Circa 2 Kg/mm/m²

Safety indications Read carefully the instructions on the packaging or read the Material Safety Datasheet related to the product before applying.

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage.

Technical characteristic in this technical data sheet are up-to-dated periodically .Revision date of this technical data sheet is indicated below. Changes of this data sheet can be found in our web-site www.tecnochem.it where you can find the same technical data sheet updated in real time.