Kalekim

3602 Mantostone

Technical Data Sheet

Light-Weight Adhesive and Plaster for Insulation Boards

3602 Mantostone

Description

Light adhesion and plaster mortar specially designed for stone wool thermal insulation systems.

Fields of Application

- Interior and exterior walls of all buildings; adhesion of XPS, EPS and Stone Wool thermal insulation boards.

Properties

- 40% lighter adhesive and plaster mortar
- 40% lower water absorption.
- Lightens the thermal insulation system by 25%.
- Light, easy-to-apply and more practical.

Preparation of Substrates

- Substrates must be sound and cured. Remove any residue which may prevent adhesion.
- The surfaces to be applied should be free of adhesive preventive foreign substances such as dust, dirt, mould oil, paint etc.
- The sub-surfaces that are not strong enough to carry themselves e.g. cracked plasters, weak surfaces, or residues of moss should be cleaned from the application surface.
- Use Tamirart in case of uneven substrates to get a sound and flat surface.
- Surfaces of the thermal insulation board should be fixed properly and firmly, their surfaces are dust-free and clean.
- There should be no gaps between the thermal insulation boards.

Application (Adhesive)

- Pour Mantostone on the amount of clean water specified in the technical table slowly and mix to obtain a homogeneous paste free from lumps. Allow the mortar to stand for 5-10 minutes to mature and remix it before the application.
- If there are level differences on the surface, apply mortar to the whole back-side edges of the board, apply in dots at the middle section and press to the wall.
- If the surface is even, you can apply adhesive mortar by raking method.
- Check the level of boards with a float or a water gauge.
- Consume the prepared mortar within 3 hours. Dispose of the mortar which has exceeded its pot life.
- Fix mechanically after 24 hours at minimum depending on the environment temperature and surface properties.

Application (Plaster)

- Pour Mantostone on the amount of clean water specified in the technical table slowly and mix to obtain a homogeneous paste free from lumps. Allow the mortar to stand for 5-10 minutes to mature and remix it before the application.
- Apply the mortar on the boards using a steel trowel. Notch the first coat of plaster with a 4x4mm tooth thickness notched trowel for homogenous thickness. Gently press and fit in reinforcement mesh using a steel trowel before the plaster mortar dries.
- Apply 10 cm overlaps at the joints of the reinforcement mesh.
- Apply the 2nd coat before the 1st coat of plaster slightly drips water.
- Smoothen the surface with a steel trowel after the 2nd coat.
- Consume the prepared mortar within 3 hours. Dispose of the mortar which has exceeded its pot life. Apply breathing top coat material after the plaster mortar is completely dry.

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Post-Application Protection & Suggestions

- Mantostone should be used within shelf life. During the application, products that have completed their shelf life should never be used.
- The consumption values in the table refers to an average consumption amount. It may vary depending on the application conditions and surface properties.
- Since it contains cement, it irritates the eyes, respiratory system and skin. For further information refer to the safety data sheet.

Storage

- Packages should be kept dry and cool at between +5°C and +35°C in moisture free conditions. Avoid direct sunlight.
- Packages should be protected from water, frost and adverse weather conditions.
- Do not stack more than 10 bags on top of each other.
- Shelf life is maximum 12 months conditional to complying with the above mentioned conditions.

Packaging

- 15 kg multi-ply paper bags.

CE

Certificates of Quality

EN 998-1 / 2017

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Technical Specifications

(23 °C and 50% RH)

General Data

Appearance	Grey and White powder
Shelf Life	12 months when stored in the original sealed packaging in dry place.
Packaging	15 kg multi-ply paper bags

Application Data

Application Temparature Range	(+5°C)-(+35°C)
Applications Tools	Steel trowel
Pot Life	3 hours
Mixing Ratio	5.5-6.5 lt water / 15 kg powder
Consumption	2.5-3 kg/m^2

Performance Data

	EN-998-1	**TS 13566**
Adhesion to the Thermal Insulation Board (EN 13494)	-	Min 0.08 N/mm²
Water Absorption (EN 1015-18)	≤ 0.20 kg/m²dk W2	-
Water Absorption (EN 12808-5)	-	30 dk. max. 5 gr 240 dk max 10 gr
Compressive Strength (EN 1015-11)	≥ 6 N/mm^2 CS IV	6 N/mm^2
Bonding Strength - Type of Break (EN 1015-12	≥ 0.50 N/mm²-B	≥ 0.50 N/mm²-B
Bulk Density of Hardened Mortar (EN 1015-10)	≤1000kg/m³ LW	-
Water Vapor Permeability Coefficient (μ) (EN 1745)	5/20 (Table Value)	-
Water Vapor Permeability Coefficient (μ) EN 1015-9)	-	-
Flexural Strength (EN 1015-11)	-	Min. 2 N/mm²
Thermal Conductivity (EN 1745)	0.27 W/mK (Table Value)(P=50%)	-
Reaction to Fire (EN 13501-1)	A1	A1
Temperature Resistance	(-30°C) - (+80°C)	(-30°C) - (+80°C)
Dangerous Substances (EN 998-1)	Complies	Complies

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