

# MARCOTHERM ADESIVO GG

FIBRE-REINFORCED POWDER LEVELLING ADHESIVE FOR THERMAL INSULATION COMPOSITE SYSTEMS

code 9680160

## DESCRIPTION

MARCOTHERM ADESIVO GG is a specific product for creating External Thermal Insulation Composite Systems (ETICS), suitable for the bonding of mineral wool, expanded cork and expanded polystyrene panels as well as for successive levelling.

MARCOTHERM ADESIVO GG is a cement based bonding powder loaded with selected minerals, specific additives and resins.

MARCOTHERM ADESIVO GG offers excellent adhesion to both new and previously coated surfaces and has a low water absorption.

This product is easy to apply, thanks to its paste-like consistency, and can be applied in thick layers without cracking.

## INSTRUCTIONS FOR USE

Indicated for creating External Thermal Insulation Composite Systems. Ideal for the bonding of insulating panels made of mineral wool (MW), expanded polystyrene (EPS) and expanded cork (ICB), and for the successive levelling/stabilizing with mesh.

MARCOTHERM ADESIVO GG is applied to plastered walls, brick, building block, concrete as well as previously coated surfaces.

## TECHNICAL SPECIFICATIONS

- Type of Binder: Portland cement and synthetic resins
- Appearance: grey powder
- Max. aggregate particle size: 1.2 mm
- Specific weight of the ready-to-use mortar: 1.6 Kg/L
- Water absorption (EN 1015-18): < 0.20 kg/m<sup>2</sup> 24 h
- Thermal conductivity (EN 1745): 0.5 W/mK (tabulated value)
- Water for paste: 25 %
- Pot-life: 4 hours at 20 °C
- Adhesion on concrete/brickwork: >0.25 MPa
- CE marking per EN 998-1
- Flame reaction per EN13501: Class A2 s1 d0
- Drying very much depends on the temperature and humidity levels of the air and the substrate; in any case, the product should not be painted over for at least 10 days, and not before it has been determined to be perfectly dry (no humidity stains).

## PREPARING THE SURFACE

The substrate must meet the following requirements:

- It must be solid and non-deformable, void of detached parts, broken bricks or panels, oil and grease. If this is not the case, solidify or reconstruct the surface with specific products.
- Homogeneous absorption.
- Rough, free of dust and dirt.
- Void of salt stains; if present remove with a wire brush or using a power washer.
- Surface temperature exceeding + 5° C
- Capillary rise phenomena must not be present. If this is not the case, take action to remove the cause or if

necessary make use of suitable materials.

- Eliminate all infiltrations of water or standing water.
  - If mould is present, treat the surface with COMBAT 222 Detergent 4810222 and with COMBAT 333 Restorer 4810333.
  - For particularly grainy surfaces, whether brick, mortar or concrete, apply a layer of appropriately diluted ATOMO 8840001 at least 2 hours before application.
- For further information refer to the technical manual for the creation of External Thermal Insulation Composite Systems.

## APPLICATION INSTRUCTIONS

Conditions of the environment and the substrate:

Air temperature: Min. +5 °C / Max. +35 °C

Temperature of the substrate: Min. +5 °C / Max. +35 °C.

- During the application stage protect the insulating panels from strong winds, direct sunlight and rain.
- Do not apply to frozen or thawing surfaces.
- Strictly follow the instructions provided on the technical information sheet.
- On very absorbent surfaces, and in the summer months, dampen the substrate before applying the product.
- Tools: trowel, steel notched adhesive spreader, metal trote.

Mix each 25 Kg bag of MACROTHERM ADESIVO GG with approximately 6-6.5 litres of clean water.

- Mechanically mix for at least 4 minutes until a homogeneous mixture without lumps is obtained.
- Do not add additional water during application in order to reduce viscosity.

- Clean the tools immediately after use with water.

- Indicative spreading rate of powder product:

Theoretical consumption: 1.1 kg/sqm per mm thickness

Adhesion of the entire surface: 3.6-4.8 kg/sqm

Spot bonding: 2.8-3.8 kg/sqm

Leveling with net: 3.6-4.8 kg/sqm

The spreading rates are approximate and depend on the condition of the substrate and the type of insulating panels being used.

### *Bonding of insulating panels*

On irregular walls (e.g. unrendered brick), the product is applied with a trowel in a minimum of 3 central points and creating a 5 cm strip around the perimeter so that at least 45-50% of the panel's contact surface is covered.

On flat mortar or concrete walls apply the adhesive over the entire surface of the panel with the exception of a 2 cm long strip around all borders of the panel.

### *Levelling of reinforced and non-reinforced surfaces*

Apply MARCOTHERM ADESIVO GG so that a homogeneous surface is obtained.

Place the stretched fibreglass mesh over the fresh mortar and emerge it using a trowel and overlap the sheets by at least 10 cm.

After it has dried (approx. 24 hours), cover the first layer with another layer.

## TINTING

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The product is available in grey.

## STORAGE

Maximum storage temperature: +30 °C

Minimum storage temperature: +5 °C

Keep in a dry place away from sources of moisture.

Stability in the original closed containers stored at suitable temperatures: 1 year.

## SAFETY RULES

Dir. 2004/42/EC not applicable

Irritating to respiratory system and skin / risk of serious damage to eyes / may cause sensitization by skin contact / keep out of reach of children / do not breathe dust / avoid contact with skin and eyes / in case of contact with eyes, rinse immediately with plenty of water and seek medical advice / wear suitable protective clothing and gloves / if swallowed, seek medical advice immediately and show this container or label / do not empty into drains.

Transport, use and store this product in accordance with current health and safety legislation; dispose of container properly after use; allow residues to dry completely and treat as special waste.

Refer to the safety data sheet for further information.

## SPECIFICATION ITEM

Powder adhesive for External Thermal Insulation Composite Systems with a maximum particle size of 1.2 mm

Application of MARCOTHERM ADESIVO GG code 9680160 powder levelling adhesive on previously prepared surfaces composed of cement, special additives and resins for the bonding of expanded polystyrene, mineral wool or expanded cork wall panels and for levelling with the incorporation of mesh needed to create an external thermal insulation composite system.

Supplying and application of the material € ..... per m<sup>2</sup>.

*SAN MARCO GROUP guarantees that the information herein is provided to the best of its technical and scientific knowledge and based on its experience; nonetheless, the company may not be held liable for the results obtained using these products, as application conditions are beyond its control. It is recommended to always make sure that the product is suited to each specific instance. The present sheet voids and replaces any previously existing sheets. For further technical information call the technical service +39 041 4569322.*