



# POLYFIX

Professional mineral adhesive- coating for thermal insulation system or for smoothing out poorly absorbent substrates



konstruktive • Leidenschaft



Strada Spartafino, 2  
12016 Peveragno (CN)



ph. +39 0171 38.38.00  
Fax +39 0171 33.93.95



info@vimark.com  
www.vimark.com



## PRODUCT DESCRIPTION

POLYFIX is a professional universal mineral adhesive and coating for the thermal insulation panel systems *COVER.therm* by Vimark.

Its high bonding strength make it an ideal coating product to even out many wall types and/or poorly absorbent substrates such as concrete, ceramic and glass mosaic, thick plastic cladding, mineral claddings, natural stone or marble, painted substrates, polystyrene or polyurethane, wood (plywood), crazed traditional cement plasters etc.

It is a certified product for ETICS in compliance with European Technical Approval ETAG 004, suitable to be used on both new and existing buildings.

The product is not suitable for gypsum or organic coatings that are inconsistent, degraded or peeling, on walls treated with a water-resistant siloxane protection or grease, substrates treated with wax or release agents or surfaces subject to rising damp.

## COMPOSITION

POLYFIX is a product consisting of special cements, selected aggregates and specific additives to improve application, adherence to substrates and flexibility of the product.

## MIXING AND APPLICATION

### ADHESIVE-COATING FOR THERMAL INSULATION SYSTEM

The substrates must be healthy, stable, free from dust and unstable parts. The surfaces must be dry and free of or properly protected from rising damp.

If the substrate is coplanar, apply **POLYFIX** over the surface using a dented trowel. If the substrate is not coplanar, but has irregularities ranging from between 10 to 15 mm, apply **POLYFIX** to the edges of the panel and to central points, ensuring a minimum surface coverage for adhesion equal to 40% of the size of the panel. After applying the adhesive, make sure that the product does not go over the sides of the panel when applying to prevent heat bridges and ensure a correct combination of the insulating materials.

Mix a 25 kg bag of **POLYFIX** with approx. 6.5-7.0 litres of clean water and mix with an electric drill at low speed until smooth and free of lumps. Leave to rest for about 5 minutes and remix briefly before use. A continuous mixer can also be used. Position the insulating panels, occasionally check the correct flatness of the surface with a screed bar. Any open gaps between the panels can be filled by applying strips of insulating product or, for cracks less than 4 mm, by injecting suitable polyurethane foam filling.

After placing the insulation panels and the drying of **POLYFIX**, proceed with the drilling stage to improve substrate adhesion and stability using insulation screws from the range **COVER.FIX**.

Apply corner profiles with mesh such as **PARASPIGOLO CAPPOTTO AL**, **PARASPIGOLO CAPPOTTO PVC** or **PARASPIGOLO PVC GOCCIOLATOIO** from the range *COVER.therm* by Vimark.

Once the panels are fixed and the edges protected, apply the insulating reinforced coating system by applying **POLYFIX**. Apply the product to cover the panels entirely with a metal trowel in a constant thickness never less than 3 mm. Insert within the plaster layer from top to bottom the fiberglass alkali-resistant reinforcement mesh **ARMANET 4x4** making sure to overlay each strip by approx. 10 cm. Setting phase completed, apply a second coat to even out the surface. The prepared surfaces are then suitable for treating with finishing products from the range *COVER.therm* by Vimark.





**SKIM COATING**

The substrates must be healthy, stable, free from dust and unstable parts. The surfaces must be dry and free of or properly protected from rising damp.

Mix a 25 kg bag of **POLYFIX** with approx. 6.5-7.0 litres of clean water and mix with an electric drill at low speed until smooth and free of lumps. Leave to rest for about 5 minutes and remix briefly before use. A continuous mixer can also be used.

Apply with **POLYFIX**, the corner profiles with mesh such as **PARASPIGOLO CAPPOTTO AL**, **PARASPIGOLO CAPPOTTO PVC** or **PARASPIGOLO PVC GOCCIOLATOIO** from the range *COVER.therm* by Vimark.

Apply a first coat of product to cover the surface entirely with a metal trowel in a constant thickness. Insert within the plaster layer from top to bottom the fiberglass alkali-resistant reinforcement mesh **ARMANET 4x4** making sure to overlay each strip by app. 10 cm. Setting phase completed, apply a second coat to even out the surface. The prepared surfaces are then suitable for treating with finishing products from the products line *DECORATIVE FINISH RANGE* by Vimark.

When applying **POLYFIX** white, trowel the final coat directly and waiting at least 48 hours before applying the decorative finish paint from the products line *DECORATIVE FINISH RANGE* by Vimark.

**INDICATIVE AMOUNTS REQUIRED**

Adhesive: 3.0-5.0 kg per m<sup>2</sup>.  
Coating: 3.0-4.0 kg per m<sup>2</sup>.

**COLOUR**

White.  
Grey.

**PACKAGING**

5 kg small bags (4 small bags x box of 20 kg - grey).  
25 kg bags on disposable 1575 kg pallet (63 bags) protected by waterproof plastic wrap.

**STORAGE**

12 months in original intact packaging and stored in a dry place.

**RECOMMENDATIONS**

Do not apply in temperature below + 5°C , or above + 35°C.  
Do not apply to dusty, uneven and inconsistent substrates.  
Do not apply to surfaces that are frozen, thawing or if freezing temperatures are expected within 24 hours.  
Do not apply adhesive thickness of more than 10mm  
Protect the applied product from rapid drying due to strong wind and direct sunlight or rain.

**PRODUCT DATA**

Appearance	powder	
Colour	grey and white	
Dry bulk density	~ 1250 kg/m <sup>3</sup>	ETAG 004
Maximum aggregate size	< 1.0 mm	
Percentage of ash at 450 °C	96.30 %	ETAG 004
Water retention	> 94%	ETAG 004





**APPLICATION DATA**

Water content of mixture	26-27%	
Mixing ratio	1 small bag 5 kg + 1.3-1.4 ℓ of water 1 bag 25 kg + 6.5-6.75 ℓ of water	
Minimum application temperature	+ 5°C	
Maximum application temperature	+ 35°C	
Workable time	≥ 120' minutes	EN 1015-9
Maximum thickness to be applied	10 mm	

**PERFORMANCE DATA**

Bulk density of fresh mortar	~ 1550 kg/m <sup>3</sup>	EN 1015-6
Bulk density of hardened mortar	~ 1300 kg/m <sup>3</sup>	EN 1015-10
Adhesion to concrete	≥ 0.5 N/mm <sup>2</sup>	ETAG 004
Adhesion between adhesive and EPS	≥ 0.08 N/mm <sup>2</sup>	ETAG 004
Adhesion between adhesive and XPS	≥ 0.2 N/mm <sup>2</sup>	ETAG 004
Air content	19 %	EN 1015-7
Compressive strength	> 6.0 N/mm <sup>2</sup> CS III	EN 1015-11
Flexural strength	> 2.0 N/mm <sup>2</sup>	EN 1015-11
Capillary water absorption	< 0.200 kg/m <sup>2</sup>	ETAG 004
Static elasticity	400 MPa	ETAG 004
Elongation at break point	0.23 %	ETAG 004
Tensile strength	0.92 MPa	ETAG 004
Water vapour permeability coefficient	< μ 25	EN 1015-19
Thermal conductivity	0.47 W/mK (tab. Mean value; P=50%)	EN 1745, A.12
Specific heat capacity	1.0 kJ/kgK	EN 1745, A.12
Reaction to fire	A1 Class	EN 13501-1
Durability	Evaluation based on provisions valid in the intended place of use of the mortar	EN 998-1
Dangerous substances	See MSDS	EN 998-1

**ACCORDING TO**



**EN 998-1**  
General purpose rendering/plastering mortar (GP) for internal/external use



**ETAG 004**  
Skim coating for ETICS n. 001/12 use

**REMARKS**

**Product for professional use.** The data and instructions in this data sheet are based on our best practical and laboratory experience. They refer to laboratory tests and should be considered indicative. In view of the different conditions of use and application, which depend on factors over which Vimark has no control (type of surface, environmental conditions, technical indications for fixing, etc.), those who use the product are responsible for ascertaining whether or not it is suitable for the intended purpose. Thus our warranty obligation merely covers the quality and fade-free characteristics of the actual product, and exclusively in relation to the aforementioned data. Vimark reserves the right to make technical modifications without prior notice. This technical data sheet voids and substitutes all previous editions. Updates will be published on the web site [www.vimark.com](http://www.vimark.com).

