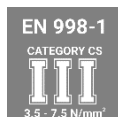




POLYFIX (white)

*Adhesive & base coat for External Wall Insulation systems (EWI)
or for smoothing out non-absorbent substrates*



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POLYFIX

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DESCRIPTION

POLYFIX is a professional universal adhesive and base coat for the external insulation system *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, glass mosaic, thick plastic cladding, mineral claddings, natural stone, marble, painted renders/plasters, polystyrene, polyurethane, wood (plywood), crazed cement-sand renders/plasters etc.

POLYFIX is designed for both hand application and mechanical projection by diesel and electric machines.

COMPOSITION

POLYFIX consists of special hydraulic binders, selected aggregates and specific additives to improve application, adherence to substrates and product flexibility.

SUBSTRATE PREPARATION / PRE-TREATMENT

POLYFIX can be used as an adhesive or base coat for external insulation systems or as coating 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, marble, painted renders/plasters, polystyrene, polyurethane, wood (plywood), crazed cement-sand renders/plasters etc.

The product is not suitable for gypsum plaster 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.

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

MIXING AND APPLICATION

EXTERNAL INSULATION SYSTEM (EWI)

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. 6-7 litres of clean water and mix with an electric drill at low speed until smooth and free of lumps. Leave to rest for about 2-3 minutes and remix briefly before use. The mixed product can be used for about 2 hours. Do not add water or stir the mixture again to use it beyond this period.

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 5 mm, by injecting suitable polyurethane foam filling. After placing the insulation panels and ensuring that **POLYFIX** is dry, proceed with the drilling stage to improve substrate adhesion and stability using insulation screws from the range **COVER.FIX**. Apply corner profiles with mesh 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 (see the table below). Insert within the base coat layer from top to bottom the fiberglass alkali-resistant reinforcement mesh **ARMANET 4x4** making sure to overlay each strip by approx. 10 cm. The mesh is to be placed in the middle or outer third of the base-coat (see table)

When the base coat is set, 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.

PANEL SYSTEM	MINIMUM THICKNESS	MESH POSITION
EPS	3 mm	middle
EPS-MW	5 mm	outer third
MW	8 mm	outer third

SKIM COATING

Mix a 25 kg bag of **POLYFIX** with approx. 6-7 litres of clean water and mix with an electric drill at low speed until smooth and free of lumps. Leave to rest for about 2-3 minutes and remix briefly before use. The mixed product can be used for about 2 hours. Do not add water or stir the mixture again to use it beyond this period.

Apply a first coat of product to cover the surface entirely with a metal trowel in a constant thickness. Insert within the base coat 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.

When the base coat is dry a decorative top coating such as **ARENINO VK2**, **TALOCCHIATO VK3** o **COLOR.VK** can be applied.

TOOL CLEANING

Clean all equipment and tools with water immediately after use. The hardened material can only be removed by physical scraping.



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YIELD / CONSUMPTION

Adhesive: 2.5-4 kg per m².
Base coat: 4-4.5 kg per m² per 3 mm of thickness.
Coating: 1.4 kg per m² per mm of thickness.

COLOR

White.

PACKAGING

25 kg bags on disposable pallets of 1575 kg (63 bags) protected by plastic stretch wrap.

EXPIRATION / CONSERVATION

12 months from the date of production.
Keep the product in its original packaging, intact and protected from moisture and frost.

WARNINGS

Do not apply in temperature below + 5°C or above + 35°C. Do not apply to dusty, uneven or 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	
▪ Color	White	
▪ Dry bulk density	~ 1400 kg/m ³	EN 1015-10
▪ Maximum aggregate size	≤ 0.8 mm	

APPLICATION DATA

▪ Water content of mix	24-28%	
▪ Mixing ratio	1 bag + 6-7 liters of water	
▪ Minimum application temperature	+ 5°C	
▪ Maximum application temperature	+ 30°C	
▪ Working time	Approx. 2 hours	
▪ Maximum thickness to be applied	10 mm	

TECHNICAL DATA

▪ Bulk density of fresh mortar	~ 1700 kg/m ³	EN 1015-6
▪ Bulk density of hardened mortar	~ 1400 kg/m ³	EN 1015-10
▪ Adhesion to concrete	≥ 0.5 N/mm ² FP: B	ETAG 004
▪ Adhesion between adhesive and EPS	≥ 0.08 N/mm ² FP: A	ETAG 004
▪ Adhesion between adhesive and XPS	≥ 0.2 N/mm ² FP: A	ETAG 004
▪ Air content	7.5 %	EN 1015-7
▪ Compressive strength	> 6 N/mm ² CS III	EN 1015-11
▪ Flexural strength	> 2 N/mm ²	EN 1015-11
▪ Capillary water absorption	< 0.2 kg/m ² x min ^{0.5} W2	EN 1015-18
▪ Water vapour permeability coefficient	< μ 25	EN 1015-19
▪ Thermal conductivity	0.45 W/mK (tab. Mean value; P=50%)	EN 1745, A.12
▪ Specific heat capacity	1 kJ/kgK	EN 1745, A.12
▪ Reaction to fire	Class A1	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

ENVIRONMENT, HEALTH, AND SAFETY(REACH)

For further information and advice on the handling, storage and safe disposal of the material, the user must consult the latest version of the Safety Data Sheet (SDS) available on the Internet, at www.vimark.com, which contains information on the physical characteristics, ecological and toxicological products, together with other safety information. Product complies with the provisions of the Regulation (EC) no. 1907/2006 (REACH) and Annex XVII, item 47 and subsequent amendments and additions.

PRODUCT FOR PROFESSIONAL USE.



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COMPLIANCE

	<p style="text-align: center;">EN 998-1:2016 General purpose rendering/plastering mortar (GP) for internal/external use</p>
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LEGAL NOTES

The data and prescriptions shown in this sheet, based on the best practical and laboratory experience, refer to laboratory tests and are to be considered in any case as indicative. The information and, in particular, the instructions concerning the application and final use of Vimark products are provided in good faith based on the current knowledge and experience of Vimark on the products provided they are properly stored, handled and used under normal conditions and observing Vimark's recommendations. Considering the different conditions of use and external factors that are independent of Vimark (support, environmental conditions, laying technique directions, etc.), those wishing to use them must therefore decide whether or not the product is suitable for use. Our warranty guarantee is therefore limited to the quality and consistency of the same with regard to the finished product, and exclusively for the above reported data. The company Vimark reserves itself the right to make technical changes without prior notice. Users must always refer to the latest version of the local data sheet relating to the product in question, copies of which will be provided upon request. This technical sheet cancels and replaces all previous editions. Any updates are published on the website www.vimark.com.



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