



POLY**FLEX**

Fluid single-component polyurethane sealant with medium-elastic modulus for sealing industrial floor joints





POLYFLEX

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DESCRIPTION

POLYFLEX is a single-component hygro-hardening sealant with medium-elastic modulus, suitable for sealing the division and expansion joints of industrial floors. Its medium-elastic modulus makes it ideal for sealing cracks and filling cavities between both homogeneous materials and materials that differ from one another. The product features excellent elasticity combined with high resistance to chemical agents, weathering, abrasion and water.

POLYFLEX polymerises by chemical reaction with atmospheric humidity and adheres directly to concrete and building materials, both stone and metal, forming an elastic and durable product. The product can be used on both horizontal and low-gradient surfaces. The applied product can be subsequently coated with suitable elastomers.

COMPOSITION

POLYFLEX is a single-component hygro-hardening formulation based on polyurethane elastomers with medium elastic modulus.

PREPARATION OF SUBSTRATE / PRETREATMENT

DIVISION AND EXPANSION JOINTS

Substrates must be dry, sound, firm, and free of dust and unstable parts. The joint must be adequately prepared and sized so as to enable the product to elongate during use by 10% or less its initial width.

SEALING CRACKS ON CONCRETE SURFACES

Substrates must be dry, sound, firm, and free of dust and unstable parts. The existing crack or fissure must be properly prepared and cleaned before sealing, if necessary by carrying out preliminary operations to open the cavity using suitable tools.

INSTALLATION

Before laying the sealant, it is best to mask the edges of the joints with adhesive paper tape. Place the suitable compression foam pre-fill cord inside the joint to form the third part and prevent the product from sticking to the bottom. Insert the flexible **POLYFLEX** aluminium cartridge into the manual or compressed-air extrusion gun and then seal the joint by inserting the product into the cavity. Smooth out the polyurethane sealant with a spatula and remove the adhesive paper tape immediately afterwards.

On weak or inconsistent substrates, or when the distribution or expansion joint undergoes frequent mechanical stress or is in frequent contact with liquids, the walls of the joints must be treated with suitable primers before sealing with **POLYFLEX**.

CLEANING TOOLS

Clean all instruments and tools with a specific thinner immediately after use. The hardened material can only be removed using mechanical means.

YIELD/CONSUMPTION

- 24 m joint 5x5 mm @600 ml cartridge.
- 6 m joint 10x10 mm @600 ml cartridge.
- 3 m joint 20x10 mm @600 ml cartridge.

COLOUR

Grey

PACKAGING

Flexible 600 ml cartridge

EXPIRY/STORAGE

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

WARNINGS

Apply at temperatures between + 5 °C and + 40 °C. Do not use on dusty, degraded, dirty or unstable surfaces. Do not use on particularly damp surfaces.

PRODUCT DATA

▪ Appearance	Paste
▪ Colour	Grey

APPLICATION DETAILS

▪ Minimum application temperature	+ 5°C
▪ Maximum application temperature	+ 40°C
▪ Minimum operating temperature	- 20°C
▪ Maximum operating temperature	+ 70°C
▪ Full hardening time	~ 10 days
▪ Waiting time before opening to light traffic	48-72 hours depending on depth of joint

TECHNICAL DETAILS

▪ Specific weight at 20°C	1.20 ± 0.02 kg/L	EN ISO 2811
▪ Dry residue in volume	97% v/v	EN ISO 3251
▪ Elongation at break	> 400%	EN 12311-2





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ENVIRONMENT, HEALTH, AND SAFETY(REACH)

▪ <i>Hardness (Shore A)</i>	45 ± 5	EN ISO 868
▪ <i>Insensitivity to water reaction time</i>	10-15 minutes	
▪ <i>Dry to the touch</i>	60-90 minutes	

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.

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.



Vimark

Strada Spartafino 2
12016 Peveragno (CN) Italy
Tel. +39 0171 383800 | Fax +39 0171 339395
info@vimark.com | Vimark.com