

IDEALFLEX-PU

Polyurethane sealant in bags

DESCRIPTION

IDEALFLEX-PU is a single-component polyurethane sealant. Supplied in 600cc bags, it cures if exposed to air humidity. It turns into an adhesive elastic rubber with a low modulus of elasticity, providing very good resistance to weather and a good resistance to low inorganic chemicals.

FIELDS OF USE

IDEALFLEX-PU has been specifically designed to be used in building to seal expansion joints requiring special extension capacities and some elastic recovery. In particular:

- Construction and expansion joints of concrete industrial flooring
- Industrial flooring joints in chemical and food fields
- Road and motorway joints
- Prefabricated wall joints and joints connecting pipes and walls
- Active cracks in stone and brick walls
- Junctions of reinforced tiles or concrete panels, etc.

CHARACTERISTICS AND ADVANTAGES

If applied to sound, dry and clean substrates, IDEALFLEX-PU has the following characteristics when completely cured:

- Perfect tightness
- Excellent resistance to diluted acids and alkali
- Good resistance to oil, gasoline and all types of fuels
- Good resistance to continuous contact with water
- Excellent resistance to aging, weather and ultra-violet rays
- Excellent adhesion to several (even wet) types of substrates upon primer application
- Low modulus of elasticity and long-lasting elasticity
- No chalking and failure, even many years after application
- Single-component system extremely easy to use

LIMITATIONS

- It is generally recommended to recoat a compatibility test with the paint to be used.
- The product has a slight tendency to yellow due to UV rays.
- After a long exposure to UV rays, the product surface is less glossy. However, this does not undermine the sealant ability.
- On wet surfaces, you must use the proper primer.
- In some cases, IDEAL FLEX-PU can create light streaks of a darker colour on the edge of the joint.

SURFACE PREPARATION

The surface to treat must be dry and clean. Concrete must have cured for at least 28 days. Adhesion primer: in order to ensure IDEAL FLEX-PU adheres perfectly, use the epoxy primer Ideal Floor 25.

APPLICATION

Put the bag into the gun, open the last side of the bag before starting the locking ring; extrude slowly.

It is recommended to use the product spatula immediately after application. For optimal performance, the width/depth should be 2 to 1, with a minimum depth of 10 mm.

CONSUMPTION

Linear metre per box of 600cc.

Depth	Width				
	5mm	10mm	15mm	20mm	25mm
5mm	24	12			
10mm			4	3	2.4
15mm					1.6

TECHNICAL SPECIFICATIONS

PROPERTIES	UNIT	METHOD	SPECIFICATION
Density at 20° C	g/m ³	ISO 2811/DIN 53217/ASTM D1475	1.35
Hardness	Shore A	ISO R868 / DIN 53505 /ASTM D2240	±25
Serving temperature	°C	-	from -40 to 90
Shock	°C	-	120
Application temperature	°C	-	from 5 to 40
Adhesion to peel	N	ASTM D 1640	>32
Drying time to touch in 77°F (25°C); 55% RH	Hours	-	2
Velocità di polimerizzazione	mm/gg	-	About 2-3
Percentage of elongation at break	%	DIN 52455 / ASTM D412	>900
Tensile elongation at break of 100%	N/mm ²	DIN 52455 / ASTM D412	2.5 - 3
Resilience	%	DIN 52458	>80

PACKAGING AND STORAGE

IDEALFLEX-PU is available in standard colours GRIGIO and NERO. It is packed in 600cc bags that can be stored for approximately 6 months if sealed at temperatures between +5 and +25°C.

RULES OF USE

ATTENTION: If open, IDEALFLEX-PU bags must be used within 30-45 minutes. IDEALFLEX-PU contains isocyanates. Avoid skin and eye contact. In case of skin contact, rinse with water and soap; call a physician in case of eye contact.

IMPORTANT:

All the information contained in this sheet is based on the best practical and laboratory applications. It is the customer's responsibility to check the product is suitable for the intended use. The manufacturer declines any responsibility for wrong application. It is recommended to carry out tests on small areas before application. This sheet replaces and cancels any previous one. The data contained can be changed at any time. Ideal Work products are for professional use and the company organises periodical training for its customers on demand. Anyone who uses these products without qualification takes all the associated risks.

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