

Technical Data Sheet

Vi-Pro® PU 2K POLYURETHANE ADHESIVE

Wersja: 1-EN

Date: 01.08.2024

Vi-Pro® PU 2K POLYURETHANE ADHESIVE

Product description:

Vi-Pro® PU 2K POLYURETHANE ADHESIVE is a two-component reactive adhesive based on polyurethane, intended for connecting metals to each other and to other materials such as wood, hard PVC and GRP. The adhesive is particularly suitable for gluing corners in the construction of aluminum windows and doors, as well as containers and vehicles. Choose Vi-Pro® PU 2K POLYURETHANE ADHESIVE if you produce composite elements from hard PS, PUR and PVC. Because the adhesive does not contain solvents, it is suitable for bonding coated and anodized aluminum surfaces. In addition, Vi-Pro® PU 2K POLYURETHANE ADHESIVE has a hard and durable adhesive joint and exceptional resistance to weather conditions, which makes it ideal for use in many different industrial fields.

Special characteristics:

- High tensile and shear strength
- Wide adhesion spectrum
- Fast curing
- Good filling characteristics
- Stable
- Can be coloured
- Can be coated

Vi-Pro® PU 2K is used in various industrial fields:

- Window, door and facades construction
- Containers and automotive construction
- Processing of ceramics, artificial stone and natural stone
- General processing of metals
- Processing of concrete and building materials
- Ventilation and air conditioning technology
- Insulation and composite panel technology
- Processing of wood

Application

Preparation:

The surfaces of the joined elements must be dry and free from dirt and grease. For cleaning, we recommend Vi-Pro® Easy To Clean. Avoid using the adhesive at temperatures below 5°C.

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Open the Vi-Pro® PU 2K POLYURETHANE ADHESIVE double insert. Screw on the static mixer. Then insert the cartridge into the dosing unit. Apply glue evenly to one of the parts to be joined.

Attention:

When opening the cartridge, after each replacement of the static mixer or after a break in processing, the first 20 ml of mixed glue should be thrown away. Due to the way the cartridges are filled, for safety reasons, the first 20 ml of glue should not be used for gluing.

Curing time

Functional strength is achieved after approximately 2 hours. Final strength is achieved after 24 hours. High temperatures shorten the hardening time, low temperatures extend it. For professional use only.

Technical parameters

Chemical base	2-Component Polyurethane, hardener isocyanate (MDI)	
Color	beige,	
Texture	pasty	
Density	component A = approx. 1,35 g/cm ³ component B = approx. 1,50 g/cm ³	DIN53479
Mixing ratio	A : B = 1 : 1 by volume	
Pot life (10/20/30°C)	80/45/30 minutes	100 g batch at 20 °C
Tensile strength	approx.10-17 N/mm ²	
Elongation at break	> 15%	DIN53283
Shore hardness D	60	DIN53504
Processing temperature	10 °C to 35 °C	
Temperature resistance	-30 °C to 90°C	

Chemical resistance

Vi-Pro® PU 2K POLYURETHANE ADHESIVE is characterized by good UV stability and good resistance to weather conditions. Moreover, it is resistant to water, alcohols, oils, gasoline and diluted alkalis and acids.

Not resistant to aromatic and chlorinated hydrocarbons, concentrated organic and inorganic acids and bases.

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Packaging

Double cartridge 825 g/600 ml, 1 pack = 6 pieces in a box

Storage

Store in a cool and dry place. Unopened containers at least durable: 12 months after production. Storage temperature: 5°C to 25°C.

Precautions:

Material safety data sheets are available upon request. Product Safety Data Sheets are provided to help customers meet their own handling, safety and disposal needs and those that may be required by local health and safety regulations. Safety data sheets are updated regularly, so please request and read the latest version of the safety data sheet before handling or using any product.

Note to customer:

The information provided is true to the best of our knowledge and is based on reliable tests and practical experience. The specified properties are indicative and therefore do not constitute specifications. The customer/user should thoroughly test each application to ensure that the product meets the required parameters. The only warranty is that the product conforms to the sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to a refund of the purchase price or replacement of any product found to be other than the warranted product. Seller is not liable for incidental or consequential damages.

More information available at: +48 22 122 85 49 or reach@vi-pro.eu