

PU5102

Multi-purpose Solvent-free Polyurethane Adhesive Sealant

PU5102 is a one-component, moisture-curable, polyurethane-based, elastomeric adhesive sealant. After curing, it provides a permanently elastic bond to fasten materials with different coefficients of expansion. The sealant is solvent free, environmentally friendly.

FEATURE

- Good Adhesion to a wide range of substrates
- Cures rapidly to a permanently elastic consistency with excellent cut and tear resistance.
- Solvent free, very low odor
- Surface paintable with water, oil, and rubber-based coatings
- Non-corrosive
- Provides shock resistance and vibration damping
- Exhibits high recovery, making it ideal for sealing in dynamical moving joints

PROPERTIES

Properties	PU5102
Chemical Base	Polyurethane
Color	Black/ White/ Grey
Viscosity *25°C, cps	Paste
Density	1.45 ± 0.05 kg/l
Application temperature	5°C-35°C
Tack-free time*	40-60 mins
Curing speed*	≥3 mm/24 hrs
Shore A hardness	~40
Tensile strength	~2 N/mm ²
Shear strength	~1 N/mm ²
Elongation at break	≥500%
Tear propagation resistance	≥10 N/ mm
Service temperature (permanent)	-40°C to +90°C
Short – term (1 day)	120°C
Short – term (1 hour)	140°C

*= at 23°C and 50% relative humidity

DIRECTION OF USE

1. Cleaning: Clean surface with a strong jet of compressed air, sandblast, or solvent to ensure the surface being clean, dry, free of oil, grease, and of sound quality
2. Activating/ Priming: Activators and/or primers may be required to achieve optimal adhesion depending on the nature of substrates.
3. Application of sealant: Cut tip to desired shape and size. Puncture airtight seal. Install with hand or power operated gun and extrude the sealant into the joint. Clean excess sealant using hard rubber plate or finger wet with soap solution.

STORAGE AND SHELF LIFE

When stored at the recommended conditions in original, unopened containers, this product has a shelf life of 9 months (cartridge). The shelf life of polyurethane sealant is related to the temperature and humidity of the environment. The recommended storage temperature is 5-25°C, humidity is < 50% RH. It is strictly prohibited that the transportation or storage temperature is over 30°C or the humidity is over 80% RH. And high-temperature container transportation is prohibited as well. In the long-time high temperature and high humidity storage environment, the product is easy to get viscous, extrusion will be deteriorated and shelf life will be shortened.

CAUTION

Some findings indicate a lack of potential for carcinogenicity with the compositions of this product by long term recurrent application to the skin. However, contact with skin is likely to produce mild transient reddening. It is important to remove adhesive from skin with soap and water thoroughly. DO NOT use solvents for cleaning hands. This resin is of moderate acute toxicity by swallowing. If swallowed, call a physician. Avoid contact with eyes. In case of contact, flush with water for at least 15 minutes and get medical attention immediately. For specific information on this product, consult the Material Safety Data Sheet.

The data contained in this bulletin is provided only as a guide for evaluation/consideration. These material characteristics are typical properties that are based on a limited number of samples tested in the laboratory. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any product or method. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.