



ADROSEAL® PU 302

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Multipurpose Polyurethane Sealant

Definition

ADROSEAL® PU 302 is a single-component, moisture-curing, polyurethane-based elastomeric adhesive mastic. Once cured, it provides a permanently elastic bond to secure materials with different coefficients of expansion.

FEATURES

1. Adheres well to a wide range of substrates
2. Quickly cures to a permanent elastic consistency with excellent cut and tear resistance
3. Solvent-free (less than 1%), odorless
4. Surfaces can be painted with water, oil, and rubber-based coatings
5. Does not cause corrosion
6. Provides impact resistance and vibration damping
7. Exhibits high recovery, ideal for sealing joints that move dynamically
8. Weather-resistant

TECHNICAL DATA	
Chemical base	Single Component polyurethane
Color	Black, white, gray
Density	1.45 ± 0.05 kg/l
Anti-sagging properties are	Good
Application temperature	5°C-35°C
Tack-free time	20-60 minutes
Curing rate*	> 3.0 mm/24 hour
Shore A hardness	~45
Tensile strength	≥ 2 N/mm ²
Shear Strength	≥ 1 N/mm ²
Elongation at break	≥ 500%
Tear propagation resistance	≥ 10 N/mm
Operating temperature	-40°C to +90°C

Short term (1 day) 120°C (1 hour) 140°C

*= at 23°C and 50% relative humidity

APPLICATION NOTE

1. Clean the surface so that it is free of dirt, dry, and does not contain oil or grease.
2. ADROSEAL® 201 can be used on most windshields without a primer. If necessary, apply Adroit Activator or Adroit Primer to the surface.
3. The mastic cures with moisture in the air. The lower the temperature and humidity, the slower the curing; the higher the temperature and humidity, the faster the curing.
4. The recommended working temperature is 5-35°C, with the optimal working temperature being 15-25°C.

CHARACTERISTICS OF THE MASTIC LAYER

1. The product cures with the moisture in the air and forms a high-strength elastic structural mastic layer.
2. The mastic layer is resistant to water, weak acid, and neutral cleaners that do not contain chlorine or alkali. It can withstand fuel, oil, solid fat, and crude oil for a short period. However, strong acids, abrasives, bleach, and other organic solvents should be avoided.
3. The mastic layer can be cut before curing. However, once cured, it can only be removed with cutting tools.

PACKAGING

310 ml/cartridge, 600 ml/sausage

STORAGE

When stored in original, unopened containers under recommended conditions, the shelf life of this product is 12 months. The shelf life of polyurethane sealant depends on the temperature and humidity of the environment. The recommended storage temperature is 5-25°C, with humidity <50% RH. Transportation or storage temperatures above 30°C or humidity above 80% RH are strictly prohibited. Container transport at high temperatures is also prohibited. In long-term storage under high temperature and high humidity conditions, the product easily becomes viscous, extrusion is impaired, and shelf life is reduced.

ATTENTION

1. The mastic cures with moisture and should be used after opening.
2. Other application processes should be carried out within the layer formation time; otherwise, it affects adhesion performance.
3. The curing rate is influenced by temperature and humidity. If it cures too quickly, bubbles may form in the mastic layer, affecting its quality.

NOTE

Information and recommendations regarding the application and final use of ADROIT® products are provided in good faith based on ADROIT®'s current knowledge and experience, assuming that the products are stored, handled, and applied under normal conditions. In no way can this information replace the necessary preliminary tests that alone can guarantee that a product is suitable for a specific use due to practical differences in materials, substrates, and actual field conditions. Users are advised to ensure they have the latest version of this document, and ADROIT® is ready to provide any additional information.

LEGAL WARNING

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