

Pu Windshield Adhesive (Automotive)

1 - Description

Polyurethane Windshield Adhesive is a component, moisture curing polyurethane based adhesive for direct glazing in automotive glass replacement.

2 - Properties

- One component formulation
- Good non-sag properties
- Short cut-off string
- Cold application
- Fast curing – Rapid strength development
- High mechanical performance
- High Modulus
- High initial bond strength
- Can be overpainted

3 – Application Areas

- It is especially useful in bonding windshield glass into automotive frames

4 - Storage and Shelf Life

Packaging	300 ml , 600 ml
Shelf Life	12 months
Storage Conditions	Store in cool and dry conditions between +5°C and +30°C
Color	Black

5- Technical Properties

	Method / Condition	Value
Before Curing		
Basis		: Polyurethane
Consistency		: Thixotropic
Curing Mechanism		: Moisture Curing
Density		: 1,13±0,03 g/ml
Tack-Free Time	(23°C ve %50 R.H.)	: 50±10 min.
Curing Rate	(23°C ve %50 R.H.)	: Min. 3,5 mm/ day
Sagging	EN ISO 7390	: 0 mm
Application Temperature		: Between +5°C and +40°C
Afer Curing		
Hardness Shore A	After 28 days	: 55-60
Paintability		: Yes*
Elongation at Break	ASTM D412	: Min. %300
Tensile Strength	ASTM D412	: Min. 4 N/mm ²
Temperature Resistance		: Between -40°C and +90°C

*Considering the diversity of paint base and quality, compatibility tests should be done before application.

6- Instructions

- Remove the damaged glass. Before application ensure that surfaces are clean, dry and free from dust and grease.
- Shake the Polyurethane Windshield Adhesive Primer for at least 30 seconds (after hearing the ball move) before application.
- Apply Windshield Adhesive Primer to the outer edge of the glass where the urethane bond will be made and allow to dry.
- Ensure that primer is tack-free dry before proceeding.
- Cut tip of the nozzle to desired shape and size to provide a bead height sufficient to give good contact with the windshield around the entire perimeter. A triangular shaped notch will provide the optimal bead shape and height.
- It is recommended to apply the adhesive with a pneumatic sealant gun.
- Apply Polyurethane Windshield Adhesive directly to the glass
- Position the glass by aligning the masking tape on glass and car body. Press glass in place to assure complete contact with the Polyurethane Windshield Adhesive

8- Restrictions

- Avoid application below 5°C and above 40°C.
- Do not apply on frozen or wet surfaces or through standing water.

9- Safety & Disposal

For information and advice on the safe transportation, storage, and disposal of chemical products, users should refer to the most up-to-date Material Safety Data Sheet (MSDS), which contains physical, ecological, toxicological, and other safety-related data.

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