

1956 Polyurethane Adhesive

TECHNICAL DATA SHEET

Technical product data:

Chemical base	One-part polyurethane
Colour	black
Density (uncured)	1.20±0.05 kg/l approx.
Stability (non-sag properties)	Very good
Cure mechanism	Moisture-curing
Tack-free time ¹⁾	50 - 60 minutes
Rate of cure ¹⁾	3 mm per 24 hrs. (see diagram)
Shore A hardness	55 approx.
Tensile strength	6.0 N/mm ²
Elongation at break	>450%
Tear strength	>20N/mm
Tensile-shear strength for a 2 mm applied thickness	>3.0 N/mm ²
Service temperature (continuous)	-40°C to +90°C
short term (max. 36 hrs.)	140°C
Shelf life (stored below 25°C)	9 months

¹⁾ at 23°C and 50% relative humidity

Description:

1956 is a high-performance elastic gap-filling one-part polyurethane adhesive that cures on exposure to atmospheric moisture to form a durable elastomer. The cured material shows high strength and vibration damping properties. 1956 is manufactured in accordance with ISO9001 and UKAS quality assurance system.

Product benefits:

- 1-C formulation
- Resistant to ageing and weathering
- Low odour
- Fast cure
- Short cut-off string
- Automotive OEM approve

Areas of application:

1956 is suitable for direct glazing applications in both

the OEM and repair markets. 1956 can bond all types of structural and non structural components, and replace mechanical/rigid fix systems, particularly where differential movement, noise transmission and corrosion may occur. It is suitable for direct glazing of windscreens and side glass and filling of exposed joints and fillets.

Chemical resistance:

1956 is resistant to fresh water, seawater, limewater, sewage effluent, diluted acids and caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, alcohol, concentrated mineral acids and caustic solutions or paint thinners. The above information is offered for general guidance only. Advice on specific applications will be given on request.

Cure mechanism:

1956 cures by reaction with atmospheric moisture. At low temperatures the water content of the air is

1956 Polyurethane Adhesive

TECHNICAL DATA SHEET

generally lower and the curing reaction proceeds more slowly.

Method of application:

Removal of old windows:

Remove damaged glass in accordance with the vehicle manufacturer's instructions.

Surface preparation:

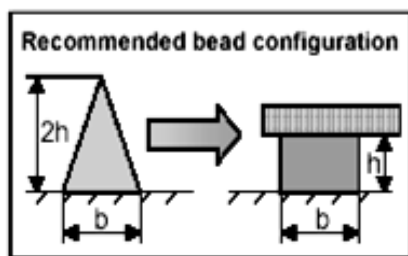
Surfaces must be clean, dry and free from all traces of grease, oil and dust. As a rule, the substrates must be prepared in accordance with the instructions given in the current TONSAN Primer Chart.

Application:

For cartridges: pierce the cartridge membrane and peel back completely.

For unipac: place in the application gun and snip off the closure clip.

Cut off the tip of the nozzle in accordance with the vehicle manufacturer's recommendations. For satisfactory results the adhesive must be applied with a piston-type cartridge gun (hand-operated or compressed air). To ensure uniform thickness of adhesive bead, we recommend that the adhesive is applied in the form of a triangular bead (see illustration).



Once opened, packs should be used up within a relatively short space of time. Do not apply at temperatures below 5°C or above 35°C. The optimum temperature for substrate and sealant is between 15°C and 25°C.

Removal:

Uncured 1956 can be removed from tools and equipment

with TONSAN Remover or an-other suitable solvent. Once cured, the material can only be removed mechanically.

Hands and exposed skin should be washed immediately using TONSAN Handclean Towel or a suitable industrial hand cleaner and water. Do not use solvents!

Packaging:

Cartridge	310 ml
Unipac	600 ml

Further information:

Copies of the following publications are available on request:

---Material Safety Data Sheet

For technical assistance, please call

+86-10-88795588.

Note

The data provided herein are typical values for the purpose of technical reference only, should not be considered as the product specification or acceptance standard. All the information is believed by Tonsan Adhesive Inc. ("Tonsan") to be accurate and reliable, but due to the differences in the application conditions, substrate surfaces and/or curing conditions, Tonsan strongly recommends that the user should perform necessary tests before any purchase or practice, to determine the suitability of our product for the intended use. Furthermore, the storage and shipping conditions could also affect the stability, physical and mechanical properties of the product. Tonsan will not assume the responsibility for the results obtained by the user or any third parties, from the methods out of Tonsan's control.