

DINITROL 9100

Moisture-curing 1-component polyurethane windscreen adhesive

DINITROL 9100 is a one component cold-applied polyurethane adhesive designed for the direct-glazing of automotive glasses. The properties of the adhesive DINITROL 9100 are the following:

- » Good adhesion on paints
- » Fast curing
- » High initial strength
- » High modulus - Low conductive
- » Low odour
- » Excellent working characteristics
- » High elasticity
- » Solvent and PVC free
- » Works at ambient temperatures from -18°C to 45°C



Equipment

DINITROL MASTER TOOL
310 ml Cartridge & 600 ml Foilwrap
Art. No. 1736500

DINITROL MASTER TOOL
310 ml Cartridge & 400 ml Foilwrap
Art. No. 1736600

INDUSTRIAL NITRILE GLOVES XL 10-P
Art. No. 1734100

DINITROL 9100

Art. No.	Size	Package	Color
12485	310 ml	Cartridge	Black
12492	400 ml	Foilwrap	Black
12493	600 ml	Foilwrap	Black

DINITROL 9100

Technical Details

Characteristics

DINITROL 9100 is a one component cold-applied polyurethane adhesive designed for the direct-glazing of automotive glasses.

Features

- good adhesion on paints
- fast curing
- high initial strength
- high modulus
- low odour
- excellent working characteristics
- low conductive
- high elasticity
- solvent and PVC free

- works at all vehicles
- works at ambient temperatures from -18°C to 45°C
- OEM approved
- Crash test approved acc. FMVSS 212
- ageing and weather resistant

Together with the corresponding pre-treatments the adhesive DINITROL 9100 is designed for the use in replacing polyurethane direct-glazed automotive glass parts and other bondings in vehicle manufacturing. The use of DINITROL 9100 high-modulus windscreen adhesive increases the torsional stiffness of the body by an additional 30 - 50%. The conductive property of the adhesive prevents contact corrosion.

Surface pretreatment

The surface to be treated must be clean, dry and free of dust, oil and grease. Thoroughly clean the surface to be bonded (ceramic edge) of the new windshield with DINITROL 582 in order to remove persistent contamination on glass surfaces and the ceramic screen printing. It is recommended to carry out the pretreatment according to the DINITROL work instructions for glass replacement. For more information on the use of DINITROL pretreatment products, please refer to our technical data sheets or the DINITROL pretreatment table. Glasses without a ceramic screen print or equivalent protection require an additional UV protective cover.

Application

We recommend to apply the adhesive bead using a sufficiently powerful application gun (e.g. DINITROL Mastertool). For easy processing, use the adhesive at room temperature. For a constant adhesive layer thickness, it is advisable to apply the adhesive in the form of a triangular bead. The glass must be inserted before the skin-formation starts. Warmer temperatures and increasing air humidity shorten or colder temperatures and lower air humidity lengthen the open time. The use of this product is suitable only for experienced users. Pre-tests are recommended for special applications.

Notes on occupational health and safety

Before using DINITROL products, we recommend to the associated safety data sheet (MSDS) for the products. Here, the user can find the information they need for the safe processing, storage and disposal of chemical products and the MSDS contains physical, toxicological and other safety-relevant facts. Further information

The following documents are available upon request:

- Material safety data sheet
- Pre-treatment table



Here you'll find your recommended DINITROL reference adhesive



Use the QR code to access our application video.

Hazards identification

2.1. Classification of the substance or mixture
GB CLP Regulation
Resp. Sens. 1; H334

For all relevant safety advices please read the material safety data sheet or the packaging label.

Technical Details

Chemical base	Polyurethane prepolymers
Colour	black paste
Cure mechanism	humidity-curing
Density (DIN 53217-4)	ca. 1'130 kg/m ³
Non-sag properties	very good
Application temperature	15°C – 35°C
Skin formation time ¹	approx. 12 –15 min.
Open time ¹	approx. 13 min.
Rate of Cure	approx. 3.5 – 4 mm / 24 h
Shore A Hardness (DIN 53505)	approx. 61
Tensile strength (DIN 53504)	approx. 10 MPa
Elongation at break (DIN 53504)	approx. 500%
Tear strength (DIN EN 1465)1	approx. 12 N/mm
Tensile shear strength (DIN EN 1465)	approx. 7 MPa
G-modulus (DIN 54451)	approx. 2.5 MPa
Volume resistivity (DIN 60093)	approx. 10 ⁷ Ωcm
Glass transition temperature	approx. -40°C
Temperature resistant short-term (approx. 1 h)	< 80°C < 120°C
Shelf life (storages below 0°C - 35°C) Cartridge/Foilwrap Drum/Pail	12 months 6 months
Safe-Drive-Away Conditions	- 17°C till + 35°C
Safe-Drive-Away-Time (PKW) ¹ (FMVSS 212/208)	without airbag: 30 min with passenger airbag: 30 min
Safe-Drive-Away-Time (PKW) ² (FMVSS 212/208)	with passenger airbag: 1 hour
Available in	310 ml cartridge, 400 ml & 600 ml foilwrap

1) 23°C / 50% r.h.

2) Ambiente temperature -17°C till - 35°C