

DINITROL 9200

Moisture-curing 1-component polyurethane windscreen adhesive

Together with the recommended DINITROL pretreatments DINITROL 9200 is designed for the use in replacing automotive windscreens.

- » High modulus and low conductive
- » Outstanding coverage and holding properties
- » Simple positioning – windscreens do not slip out
- » Solvent- and PVC-free
- » Increase in torsion rigidity of the body by an additional 40 – 60 %



Equipment

Industrial Nitrile Gloves XL 10-P

Art. No. 1734100

DINITROL Master Tool

310 ml Cartridge & 600 ml Foilwrap

Art. No. 1736500

DINITROL Master Tool

310 ml Cartridge & 400 ml Foilwrap

Art. No. 1736600

DINITROL 9200

Art. No.	Size	Package	Color
12572	310 ml	Cartridge	Black

a brand of



DINOL GmbH Pyrmonter Straße 76, D-32676 Lügde, Germany
Tel. +49 (0) 5281-98 2 98-0, Fax +49 (0) 5281-98 2 98-60, www.dinol.com

09.2021

All data and recommendations are the result of careful tests by our laboratory. They only can be considered as recommendation which corresponds to the level of experience of today. The data are given in good faith. However, in view of the multiplicity of possible application and working methods we are not in a position to assume any responsibility or obligations deriving from the misuse of our products. Therefore, a contractual legal relationship is not justified, and there are no secondary obligations arising from any purchase contracts.

DINITROL 9200

Technical Details

Characteristics

DINITROL 9200 is a one component cold-applied polyurethane adhesive designed for the direct-glazing of automotive glasses. The properties of the high-tack adhesive DINITROL 9200 combined with the appropriate pre-treatment agents are as follows:

Features

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

- high elasticity
- works at ambient temperatures from -18°C to 45°C
- OEM approved works at all vehicles
- Meets the technical requirements of the EURO NCAP crash test
- Crash test approved acc. FMVSS 212
- ageing and weather resistant

Together with the corresponding pre-treatments the adhesive DINITROL 9200 is designed for the use in replacing polyurethane direct-glazed automotive glass parts and other bondings in vehicle manu-

facturing. The use of DINITROL 9200 high-modulus windscreen adhesive increases the torsional stiffness of the body by an additional 40 - 60%. DINITROL 9200 is characterized by an increased initial strength. This prevents the windshield from slipping off after bonding. The fast curing guarantees short drive-away times. At the same time, the sensitivity of the uncured bond to tension was considerably reduced. The low-conductivity property of the adhesive prevents contact corrosion.

Surface pre-treatment

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 pre-treatment according to the DINITROL work instructions for glass replacement. For more information on the use of DINITROL pre-treatment products, please refer to our technical data sheets or the DINITROL pre-treatment 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 Master tool). 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.

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.

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

Technical Details

Chemical base	Polyurethane prepolymers
Colour	black
Consistency	paste
Cure mechanism	humidity-curing
Density (DIN 53217-4)	ca. 1'130 kg/m ³
Non-sag properties	very good
Application temperature	20°C – 45°C
Skin formation time ¹	approx. 11 – 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 53515)	approx. 12 N/mm
Lab-shear-strength (DIN EN 1465)	approx. 8 MPa
G-modulus (DIN 54451)	approx. 2.7 MPa
Volume resistivity (DIN 60093)	approx. > 10 ⁷ Ωcm
Glass transition temperature	< 80°C up to 120°C (approx.1 hour)
Shelf life (storages 0°C - 25°C): cartridges / foil wraps	12 months
Safe-Drive-Away-Time ¹ (FMVSS 212/208) without airbags with passenger airbags	without airbag: 30 min with passenger airbag: 30 min
Available in	310 ml cartridge