

# DINITROL 9100 HD

## Humidity-curing 1-component polyurethane windscreen adhesive

Together with the corresponding pre-treatments as for example primers and or/ activators, DINITROL 9100 HD is designed for the use in replacing polyurethane direct-glaze automotive glass parts and other bondings in vehicle manufacturing.

- » 30-minute safe drive away
- » OEM approved
- » High density, best decking product
- » Solvent & PVC free
- » Superior compact body, no sagging
- » High tack & very good initial strength, fast cure
- » High modulus & low conductive
- » Additional 30-50% torsional stiffness
- » Crash test approved acc. FMVSS 212
- » Ageing and weather resistant



### 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 10-P**  
 Art. No. 1734100 (XL)  
 Art. No. 1734300 (LG)

### DINITROL 9100 HD

Art. No.	Size	Package	Color
1273477	310 ml	Cartridge	Black
1273377	600 ml	Foilwrap	Black

a brand of



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# DINITROL 9100 HD

## Technical Details

### Characteristics

DINITROL 9100 HD is a one component cold-applied polyurethane adhesive designed for direct windshield replacement. The properties of the adhesive DINITROL 9100 HD combined with the corresponding DINITROL pre-treatments are the following:

- High modulus and low conductive
- Additional 30–50% torsional stiffness
- Prevents contact corrosion in aluminum-bodied vehicles
- OEM approved
- Crash test approved acc. FMVSS 212
- Ageing and weather resistant

### Features

- 30-minute safe drive away
- High density, best decking product
- Solvent and PVC free
- Superior compact body, no sagging
- High tack and very good initial strength
- Very short cut-off string
- Fast cure

### Method of use

The application is done by extrusion out of foilwraps and cartridges. The use of the product is suitable only for experienced and professional users. For other applications, tests must be performed to ensure material and adhesion compatibility to the substrates.

### Surface Preparation

All bonding surfaces must be clean, dry and free from all traditional and non-traditional contamination. Thoroughly clean the glass bonding surface with DINITROL 582 in order to remove all contaminates. Abrading the glass and/or ceramic frit bonding surface will enhance the adhesive and primer bond. Any surface rust on pinch weld bonding area must be completely removed. Bare metal, scratches and painted surface areas on the vehicle must be primed as documented in DINITROL AGR training manual.

***DINITROL 9100 HD REQUIRES THE USE OF PRIMER 538PLUS OR 520 ACTIVATOR ON THE GLASS AND/OR CERAMIC FRIT SURFACE.***

### Application

We recommend to apply the adhesive with a piston style application gun. 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 insert-ed before skin-formation starts. Warmer temperatures with higher relative humidity can shorten the open time, while colder temperatures and lower relative humidity can lengthen the open time.

### Health and Safety

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

### Storage

Product should be stored between 0–35 °C (0°–95 °F).

## Technical Details

Chemical base	1 component polyurethane
Colour	black
Cure mechanism	humidity-curing
Density (DIN 53217-4)	ca. 1'130 kg/m <sup>3</sup>
Non-sag properties	excellent
Application temperature	0°F–115°F
Skin formation time <sup>1</sup>	approx. 14 min.
Open time <sup>1</sup>	approx. 12 min.
Rate of cure <sup>1</sup>	approx. 3–4 mm / 24 h
Shore A Hardness (DIN 53505)	approx. 61
Tensile strenght (DIN 53504)	approx. 10 MPa
Elongation at break (DIN 53504)	approx. 480 %
Tear strenght (DIN EN 1465) <sup>1</sup>	approx. 12 N/mm
Tensile shear strength (DIN EN 1465)	approx. 7 MPa
G-modulus (DIN 54451)	approx. 2.6 MPa
Temperature resistance short-term (approx. 1 h)	< 176°F < 248°F
Shelf life Cartridge/Foilwrap	12 months
Safe-Drive-Away-Time <sup>1</sup> (FMVSS 212/208)	with or without passenger airbag: 30 min
Available in	310 ml cartridge, 600 ml foilwrap

1) 0°F – 115°F

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