BONDING + SEALING

DINITROL D-501 HV

High Modulus and Non-Conductive Urethane

Together with the corresponding pre-treatments as for example primers and or/activators, DINITROL D-501 HV is designed for the use in replacing polyurethane direct-glaze automotive glass parts and other bondings in vehicle manufacturing.

- » 2-hour safe drive away time
- » OEM approved
- » High modulus & non-conductive
- » High viscosity
- » Excellent decking product
- » Fast cure
- » Solvent & PVC Free
- » 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 D-501 HV

Art. No.	Size	Package	Color
1264277	310 ml	Cartridge	Black
1264377	600 ml	Foilwrap	Black

a brand of DINOL

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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 D-501 HV

Technical Details

Characteristics
DINITROL D-501 HV is a one component cold-applied polyurethane adhesive designed for direct windshield replacement. The properties of the adhesive DINITROL D-501 HV combined with the corresponding DINITROL pre-treatments are the following:

Features
- 2-hour safe drive away time
- High modulus & non-conductive
- High viscosity
- Excellent decking product
- Fast cure
- Short cut-off string
- Solvent & PVC Free
- Prevents contact corrosion in aluminum-bodied vehicles
- OEM approved
- Crash test approved acc. FMVSS 212
- Ageing and weather resistant

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 docu-mented in DINITROL AGR training manual. ***DINITROL D-501 HV 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/m³
Non-sag properties	very good
Application temperature	0°F – 115°F
Skin formation time[1]	approx. 15 min.
Open time[1]	approx. 12 min.
Rate of cure[1]	approx. 3 – 4 mm / 24 h
Shore A Hardness (DIN 53505)	approx. 60
Tensile strenght (DIN 53504)	approx. 10 MPa
Elongation at break (DIN 53504)	approx. 500 %
Tear strenght (DIN EN 1465)1	approx. 12 N/mm
Tensile shear strength (DIN EN 1465)	approx. 6.9 MPa
G-modulus (DIN 54451)	approx. 2.5 MPa
Temperature resistance short-term (approx. 1 h)	< 176°F < 248°F
Shelf life Cartridge/Foilwrap	12 months
Safe-Drive-Away-Time[1)] (FMVSS 212)	with or without passenger airbag: 2 hours minimum, see 1)
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.

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* Application at or below 40°F is Not Recommended