BONDING + SEALING

DINITROL 502 PTG

Humidity-curing 1-component polyurethane adhesive

DINITROL 502 PTG is a humidity-curing 1-component polyurethane recommended as primerless to glass adhesive for the replacement of automotive windscreens.

- » Solvent- & PVC-free
- » Good decking & standing properties
- » Primerless to glass
- » Easy positioning of the windscreen
- » Extra shortened pretreatment & process times
- » Crash-test 2 hours carried out in accordance with FMVSS 212

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 502 PTG

Art. No.	Size	Package	Color
12660	310 ml	Cartridge	Black

a brand of DINOL

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DINITROL 502 PTG

Technical Details

Characteristics
DINITROL 502 PTG is a humidity-curing and one component polyurethane for the direct-glazing of automotive glasses.

Features
- good adhesion directly on the vehicle windows
- good adhesion on top coats
- short skin formation time
- shortened process time
- good decking & standing properties
- Crash test approved according to FMVSS 212

DINITROL 502 PTG is a primerless to glass adhesive and requires the primer DINITROL 538 plus only, if the metal is scratched during glass removal. Furthermore DINITROL 538 plus or is needed, when bonding to encapsuations or pre-applied adhesive systems (PAAS).

Areas of application
When using the DINITROL 502 PTG windscreen adhesive, no pre-treatment agents such as black primers and / or activators are required. It is recommended, however, that the surface to be bonded is thoroughly cleaned in order to remove any residues on the vehicle windows. Here we recommend the cleaning agent DINITROL 582. For the treatment of minor lacquer damages which have arisen during the removal of the vehicle window we recommend the black primer DINITROL 538 plus. In addition, the primer DINITROL 538 plus should be used, for the pretreatment oractivation of PUR-RIM-coated vehicle windows.

Method of use
The application of the DINITROL 502 PTG is done by extrusion out of foil wraps and cartridges. The use of this product is suitable only for experienced users. Pre-tests are recommended for special applications.
Further information:

The following publications are available on request:
- Safety data sheet

Health / Storage
According to 1907 / 2006 EC, DINITROL 502 PTG has to be labelled. Symbol: Xn
Storage temperature between 0 and 35°C.
(32°F and 90°F).

Technical Details

Chemical base	Polyurethane
Colour / Consistency	black paste
Cure mechanism	humidity-curing
Density (DIN 53217-4)	ca. 1'200 kg/m^3
Non-sag properties	very good
Application temperature	10°C – 40°C (product)
Skin formation time[1]	approx. 30 – 35 min.
Open Time1	approx. 30 min.
Rate of cure	approx. 3 – 4 mm / 24 h
Shore A hardness (DIN 53505)	approx. 65 – 75
Tensile strength (DIN 53504)	approx. 11 MPa
Elongation at break (DIN 53504)	approx. 400%
Tear strength (DIN 53515)	approx. 11 N/mm
Lab-shear-strength (DIN EN 1465)	approx. 9 MPa
G-modulus (DIN 54451)	approx. 2.5 MPa
Volume resistivity (DIN 60093)	approx. 10^6 Ωcm
Glass transition temperature	approx. -40°C
Temperature resistance	< 80°C **short-term (approx. 1 h):** < 120°C
Shelf life (storages below 25°C)	**Cartridges:** 12 months
Safe-Drive-Away-Time[1] (FMVSS 212/208)	**with passenger airbags:** 2 hours
Available in	310 ml cartridge

1) 23°C / 50% rf

Hazards identification
2.1. Classification of the substance or mixture
GB CLP Regulation
Flam. Liq. 2; H225
Eye Irrit. 2; H319
STOT SE 3; H336

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