DINITROL 500

Humidity-curing 1-component polyurethane



DINITROL 500 1K is togehter with the corresponding pre-treatments as for example primers and/or activators. DINITROL 500 1K is designed for the use in replacing polyurethane direct-glazing automotive glass parts and other bondings in vehicle manufacturing.

- » Proven OEM technology
- » Short cut-off string
- » Solvent and PVC free
- » Good decking and standing properties
- » High elastic
- » Easy handling & positioning of the windshield
- » Supports the torsional rigidity of the body
- » Safe-drive-away-time 4 hours

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 500

Art. No.	Size	Package	Color
12061	310 ml	Cartridge	Black
12063	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 500

Technical Details

Characteristics
DINITROL 500 1K is a black humidity-curing and one component polyurethane for the directglazing of automotive glasses. The adhesive DINITROL 500 1K includes the following properties:
• good adhesion on paints
• low odour
• good working charcteristics
• very good standing properties
• short cut-off string
• high elasticity
• solvent and PVC free
• OEM approved
• ageing and weather resistant
Together with the corresponding pre-treatments as for example primers and/or activators,
DINITROL 500 1K is designed for the use in replacing polyurethane direct-glazed automotive glass parts and other bondings in vehicle manufacturing.

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. Preliminary tests are required 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 safetyrelevant facts.

Further informationen
The following documents are available on request:
- Material safety data sheet
- DINOL pre-treatment chart

Technical Data

Chemical base	Polyurethane
Colour/Consistency	black paste
Cure mechanism	humidity-curing
Density (DIN 53217-4)	approx. 1'200 kg/m^3
Non-sag properties	very good
Application temperature	10°C – 35°C (product)
Skin formation time[1]	approx. 30 min.
Open time[1]	approx. 25 min.
Rate of cure	approx. 3 – 4 mm / 24 h
Shore A hardness (DIN 53505)	approx. 55
Tensile strength (DIN 53504)	approx. 9 MPa
Elongation at break (DIN 53504)	approx. 550%
Tear strength (DIN 53515)	approx. 10 N/mm
Lab-shear-strength (DIN EN 1465)	approx. 8 MPa
G-modulus (DIN 54451)	approx. 1.3 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 (Storage < 25°C) (FMVSS 212/208)	**Cartridge/Foil:** 12 months
Safe-Drive-Away-Time[1] (FMVSS 212/208)	**without airbag:** 2 hours **with passenger airbags:** 4 hours
Available in	310 ml cartridge, 600 ml foilwrap

1) 23°C / 50% rf

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.

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