

DINITROL 501 FC

Moisture-reactive 1-component polyurethane adhesive

DINITROL 501 FC is together with the corresponding pretreatments, as for example primers and/or activators, designed for the use in replacing automotive windscreens.

- » Tested OEM technology
- » Quick curing
- » Solvent- and PVC-free
- » Outstanding coverage and holding properties
- » High elasticity
- » Crash-test 4 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 501 FC

Art. No.	Size	Package	Color
12064	310 ml	Cartridge	Black
12120	310 ml	Cart. Mini-Kit	Black

Art. No.	Size	Package	Color
12065	400 ml	Foilwrap	Black
12066	600 ml	Foilwrap	Black

DINITROL 501 FC

Technical Details

Characteristics

DINITROL 501 FC is a humidity-curing and one component polyurethane for the direct-glazing of automotive glasses. The adhesive DINITROL 501 FC includes the following properties:

- good adhesion on paints
- fast curing
- low odour
- excellent working characteristics
- very good standing properties
- short cut-off string
- high elasticity
- solvent and PVC free
- OEM approved
- ageing and weather resistant
- Crash test approved according to FMVSS 212

Together with the corresponding pre-treatments as for example primers and/or activators, DINITROL 501 FC 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 Information

The following documents are available upon request:

- Material safety data sheet
- DINOL pre-treatment chart



Here you'll find your recommended DINITROL reference adhesive



Use the QR code to access our application video.

Technical Data

Chemical base	Polyurethane prepolymers
Colour	black paste
Cure mechanism	humidity-curing
Density (DIN 53217-4)	approx. 1'200 kg/m ³
Non-sag properties	very good
Application temperature	15°C – 35°C (product)
Skin formation time ¹	approx. 15 – 20 min.
Open time ¹	approx. 15 min.
Rate of cure	approx. 3 – 4 mm / 24 h
Shore A hardness (DIN 53505)	approx. 53
Tensile strength (DIN 53504)	approx. 9 MPa
RElongation at break (DIN 53504)	approx. 600%
Tear strength (DIN 53515)	approx. 9 N/mm
Lab-shear-strength (DIN EN 1465)	approx. 7 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/Foilwrap: 12 months Drum/Pail: 6 months
Safe-Drive-Away-Time ¹ (FMVSS 212/208)	without airbag: 1 hours with passenger airbags: 3 hours
Available in	310 ml cartridge, 400 ml & 600 ml foil-wrap

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.