

DINITROL® 501 FC-HM

humidity-curing and one component polyurethane

Characteristics:

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

- good adhesion on paints
- fast curing and high modulus
- 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 acc. FMVSS 212

Together with the corresponding pretreatments as for example primers and/or activators, DINITROL 501 FC-HM is designed for the use in replacing polyurethane direct-glazed automotive glass parts and other bondings in vehicle manufacturing. The adhesive's high modulus property contributes remarkably to the stiffening increase of the car-body.

Application:

The application of the DINITROL 501 FC-HM is done by extrusion out of drums, pails, 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
- DINOL pre-treatment chart

Health and safety / storage:

According to 1907 / 2006 EC, DINITROL 501 FC-HM has to be labelled. Symbol: Xn
Storage temperature between 0°C and 35°C.

Die in diesem Merkblatt gemachten Angaben sind das Ergebnis sorgfältiger Untersuchungen. Soweit sie sich auf die Anwendung beziehen, sind sie als Empfehlung zu betrachten, die dem Erfahrungsstand entsprechen. Wegen der Vielseitigkeit der Anwendungs- und Arbeitsweisen können wir jedoch eine Verbindlichkeit nicht übernehmen. Es wird daher ein vertragliches Rechtsverhältnis nicht begründet, und es entstehen aus eventuellen Kaufverträgen keine Nebenverpflichtungen.

All data and recommendations are the result of careful tests by our laboratories. They only can be considered as recommendation which correspond 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 use of our products.

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Available packagings:

Cartridges 310 ml Foil wraps 400 ml Pail 20 L Drum 200 L

Technical properties:

Chemical base:	Polyurethane
Colour:	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 – 40°C (product)
Skin formation time ¹ :	approx. 20 min.
Open time ¹ :	approx. 15 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 resistants: Short term (approx. 1h)	< 80°C < 120°C
Shelf life (storages below 25°C): cartridges / foil wraps drums / pails	12 month 6 month
Safe-Drive-Away-Time ¹ : (FMVSS 212/208) without airbags with passenger airbags	1 hour 2 hours

¹⁾ 23°C / 50% rf

Health and safety information can be obtained from the material safety data sheet and the product label.

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