

DINITROL 501 FC-HM SQ

1-component, moisture curing polyurethane adhesive

Characteristics:

DINITROL 501 FC-HM SQ is a one component, moisture curing polyurethane adhesive with the following properties:

- good adhesion on paints
- low odour
- excellent working characteristics
- very good standing properties
- high modulus
- short cut-off string
- solvent and PVC free
- OEM approved
- ageing and weather resistant
- less particles

Together with the corresponding pre-treatments DINITROL 501 FC-HM SQ is particularly suited to bonding applications in the manufacture of trains, busses and trucks. Because of the excellent working characteristics and less particles, DINITROL 501 FC-HM SQ is suited also for very good gap fillings. The adhesive's high modulus property contributes remarkably to the stiffening increase of the construction.

Application:

The application of the DINITROL 501 FC-HM SQ is done by extrusion out of drums, pails and foil wraps. 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 SQ has to be labelled. Symbol: Xn
Storage temperature between 0°C and 35°C.

During transport the storage temperature may shortely (2 to 4 days) go below or above these limits. When this happens, the material has to be climatized at room temperature before application: Drums, hobbocs, cartridges and foil wraps need 1 to 2 days. Single cartridges and foil wraps need 3 to 4 hours.

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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1-component, moisture curing polyurethane adhesive

Available packagings:

Foil wraps 400 ml and 600 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. 25 – 35 min.
Open time ¹⁾ :	approx. 20 min.
Rate of cure:	approx. 3 – 4 mm / 24 h
Shore A hardness (DIN 53505):	approx. 65 – 75
Tensile strength (DIN 53504):	approx. 10 MPa
Elongation at break (DIN 53504):	approx. 440%
Tear strength (DIN 53515):	approx. 11 N/mm
Lab-shear-strength (DIN EN 1465):	approx. 5 – 7 MPa
G-modulus (DIN 54451):	approx. 2.5 MPa
Volume resistivity (DIN 60093):	approx. 10 ⁶ Ωcm
Glass transition temperature:	approx. -40°C
Temperature resistant: long-term short-term (approx. 1h)	< 90°C < 130°C
Shelf life cartridges / foil wraps drums / pails	12 month 6 month

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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