

DINITROL 771

MS Polymer

DINITROL 771 is a MS Polymer-based adhesive with a high green strength and extended open time, suitable for elastic bonds. Due to its high green strength clamping times are reduced, or clamps are not needed at all. It can also be used as sealant, if material of similar stiffnesses are joined, or if mechanical fastening methods are used.

- » Solvent-, isocyanate- und PVC-free
- » No labelling, No hazards symbols
- » Very good UV- resistance and ageing properties
- » Very wide range of adhesion, often without adhesion promoter
- » Neutral, odourless and fast curing
- » Paint compatible with most industrial paint or lacquering systems, both alkyd resin and dispersion-based
- » Can be painted over after skin formation (wet on wet) with the usual paint systems preliminary tests are essential)



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 771

Art. No.	Size	Package	Colour
12467	290 ml	Cartridge	Black
12522	290 ml	Kartusche	White
12523	600 ml	Foilwrap	White
12525	600 ml	Foilwrap	Black

a brand of



DINOL GmbH Pyrmonter Straße 76, D-32676 Lügde, Germany
 Tel. +49 (0) 5281-98 2 98-0, Fax +49 (0) 5281-98 2 98-60, www.dinol.com

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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 771

Technical Details

Product description

DINITROL 771 is a 1-component, moisture-curing MS polymer-based adhesive with high initial strength, specially developed for semi-structural bonding and sealing. Due to its good stability and holding power, fixing can often be dispensed with. Further properties are:

- Solvent-, isocyanate- and PVC-free --> Non-marking
- Very good UV and ageing resistance
- No formation of CO₂, no bubble formation
- Very broad adhesion spectrum, often also without adhesion promoter
- Permanently elastic between -40°C and +120°C
- Odourless and fast curing

- Can be recoated after skin formation (wet in wet) with all common paint systems (Preliminary tests are absolutely necessary)

Fields of application

- Elastic bonding and sealing in buses, trains, caravans, motor homes and trucks
- All semi-structural bonding

Processing

DINITROL 771 is applied with the usual spray guns at temperatures between +5°C and 35°C. For sealing applications, DINITROL 771 should be stripped within 10 min (at 23°C/50% r.h.) and, if necessary,

smoothed with a soap solution. Join the parts to be bonded within the open time (<15 min at RT), higher temperatures reduce the open time.

The surfaces to be bonded must be clean, dry and free of dust and grease. In many cases, pre-treatment with adhesion promoter is not necessary, e.g. on aluminium, steel, glass, painted wood.

DINITROL adhesion promoters (e.g. DINITROL 545 Activator) can be used to improve adhesion. We recommend carrying out preliminary tests.

Storage

Unopened containers should be stored between +5°C and +30°C 12 months (cartridges 18 months).

Technical Data

Colour	white, black
Base	MS polymer
Curing method	Moisture
Density	approx. 1,4 g/ml
Skin formation time (20°C/50% R.H.)	approx. 12 min.
Open time (20°C/50% R.H.)	< 15 min.
Curing speed after 24 h (20°C/50% R.H)	approx. 4 mm
Shore A hardness (DIN 53505)	approx. 60
Volume change (DIN 52451)	< 3%
Green strength (Physica Rheometer MC100) <small>(max. load which can be applied per m² uncured adhesives without sagging)</small>	approx. 160 MPa
Tensile stress (100%) (DIN 53504/ISO 37)	approx. 1,7 MPa
Tensile stress at break (DIN 53504/ISO 37)	approx. 2.8 MPa
Elongation at break (DIN 53504/ISO 37)	approx. 210%
Shear stress (DIN 53283/ASTM D1002) <small>(Alu-Alu; adh. thickness 2 mm, test speed 50 mm/min.)</small>	approx. 2.5 MPa
Tear propagation (DIN 53515/ISO 34) <small>(Typ C, test speed 500 mm/min.)</small>	approx. 14 N/mm
E-Modulus (10%) (DIN 53504/ISO 37)	approx. 4.5 MPa
Solvent percentage	0%
Isocyanate percentage	0%
Temperature resistance	- 40°C to + 120°C
Temperature resistance (max. 20 minutes)	+ 180°C
UV and weather resistance	Excellent
Application temperature	+5°C to +35°C
Available in	290 ml Cartridges, 600 ml Foilwraps other packaging on request

*at 23°C / 50% r.h

Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation
This mixture is not classified as hazardous in accordance with GB CLP Regulation.

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