

# DINITROL 9100

## Humidity-curing 1-component polyurethane adhesive

Together with the recommended DINITROL pretreatments DINITROL 9100 is designed for the use in replacing automotive windscreens.

- » Proven OEM technology
- » High modulus
- » Low conductive
- » Excellent decking and standing properties
- » Easy positioning and no sideslip of the windscreen
- » Extra shortened process times
- » Increases the torsional stiffness of the body by additional 30 – 50 %



### Equipment

**DINITROL Foil-Wrap Tool PN 400 ml**  
Art. No. 1703000

**Milwaukee Tool 18V Wireless 1-P**  
Art. No. 1731900

**Milwaukee Tool 600 ML Add-On Set 1-P**  
Art. No. 1732000

**Industrial Nitrile Gloves XL 10-P**  
Art. No. 1734100

### DINITROL 9100

| Art. No. | Size   | Package   | Color |
|----------|--------|-----------|-------|
| 12485    | 310 ml | Cartridge | Black |
| 12492    | 400 ml | Foilwrap  | Black |
| 12493    | 600 ml | Foilwrap  | Black |

a brand of



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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 misuse of our products. Therefore, a contractual legal relationship is not justified, and there are no secondary obligations arising from any purchase contracts.

# DINITROL 9100

## Technical Details

### Characteristics

DINITROL 9100 is a one component cold-applied polyurethane adhesive designed for the direct-glazing of automotive glasses.

### Features

- good adhesion on paints
- fast curing
- high modulus
- low odour
- excellent working characteristics
- high modulus and low conductivity

- high elasticity
- solvent and PVC free
- works at ambient temperatures from -18°C to 45°C
- OEM approved
- Crash test approved acc. FMVSS 212
- ageing and weather resistant

## Technical Details

|   |   |
|---|---|
| Chemical base   | Polyurethane prepolymers  |
| Colour  | black   |
| Consistency   | paste   |
| Density (DIN 53217-4)   | ca. 1'130 kg/m <sup>3</sup>   |
| Non-sag properties  | very good   |
| Application temperature                                       | 15°C – 35°C   |
| Skin formation time <sup>1</sup>                              | approx. 12 –15 min.   |
| Open time <sup>1</sup>  | approx. 13 min.   |
| Curing  | approx. 3.5 – 4 mm / 24 h   |
| Shore A Hardness (DIN 53505)                                  | approx. 61  |
| Tensile strenght (DIN 53504)                                  | approx. 10 MPa  |
| Elongation at break (DIN 53504)                               | approx. 500 %   |
| Tear strenght (DIN EN 1465)1                                  | approx. 12 N/mm   |
| Tensile shear strength (DIN EN 1465)                          | approx. 7 MPa   |
| Shear modulus (DIN 54451)                                     | approx. 2.5 MPa   |
| Contact resistance (DIN 60093)                                | approx. 10 <sup>7</sup> Ωcm   |
| Glass transition temperature                                  | approx. -40°C   |
| Temperature resistance short-term (approx. 1 h)               | < 80°C<br>< 120°C   |
| Durability (Storage <25°C)<br>Cartridge/Foilwrap<br>Drum/Pail | 12 months<br>6 months   |
| Safe-Drive-Away-Time (PKW) <sup>1</sup><br>(FMVSS 212/208)    | <b>without airbag:</b> 30 min<br><b>with passenger airbag:</b> 30 min |
| Available in  | 310 ml cartridge, 400 ml & 600 ml foilwrap                            |

1) 23°C / 50% rf

### Areas of application

Together with the corresponding pre-treatments the adhesive DINITROL 9100 is designed for the use in replacing polyurethane direct-glazed automotive glass parts and other bondings in vehicle manufacturing. The use of DINITROL 9100 high-modulus disc adhesive increases the torsional stiffness of the body by an additional 30 - 50%. The conductive property of the adhesive prevents contact corrosion.

### Method of use

The application of the DINITROL 9100 is done by extrusion out of 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 documents are available on request:

- Material safety data sheet

Storage in closed packaging between 0 and 35°C.

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