

# DINITROL F 500

## Black moisture-reactive 1-component Polxurethane adhesive

DINITROL F 500 is together with the corresponding pre-treatments it is particularly suited to bonding applications in the automotive industry as well as bonding applications in manufacture of trains, busses and trucks.

- » Low odour, solvent- and PVC free
- » High elasticity – high start adhesion
- » Electrically low conductive
- » Tolerance compensating and vibration-resistant
- » Easy positioning and no slip of bonded substrates
- » Highly supports construction strength
- » Shortened process time



### Equipment

#### Industrial Nitrile Gloves XL 10-P

Art. No. 1734100

#### DINITROL Master Tool

310 ml Cartridge & 600 ml Foilwrap

Art. No. 1736500

#### DINITROL Master Tool

310 ml Cartridge & 400 ml Foilwrap

Art. No. 1736600

### DINITROL F 500

Art. No.	Size	Package	Color
12178	600 ml	Foilwrap	Black

# DINITROL F 500

## Technical Details

### Characteristics

DINITROL F 500 is a black, humidity-curing 1-component polyurethane adhesive. Together with the corresponding pre-treatments DINITROL F 500 is particularly suited to bonding applications in the automotive industry as well as bonding applications in manufacture of trains, busses and trucks.

- Proven technology for structural bonding in bus, truck and railway production
- Highly elastic
- Good covering and standing properties

- Easy positioning and no slipping of bonded substrates
- Strongly supports the stability of the construction
- Shortened process time

### Application

The application of the DINITROL F 500 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.

The following documents are available on request:

- Material safety data sheet
- DINOL pre-treatment chart

### Storage

DINITROL F 500 has to be stored in closed packaging between 0 – 35°C.

For additional information, please consult DINOL GmbH.

## Technical Data

Chemical Base	Polyurethane prepolymers
Colour / Consistency	black paste
Cure mechanism	humidity-curing
Density (DIN 53217-4)	approx. 1'200 kg/m <sup>3</sup>
Non-sag properties	very good
Application temperature	10°C – 40°C (product)
Skin formation time*	approx. 30 min.
Open time*	approx. 25 min.
Through hardening	approx. 3 – 4 mm / 24 h
Shore A Hardness (DIN 53505)	approx. 55
Tensile strenght (DIN 53504)	approx. 9 MPa
Elongation at break (DIN 53504)	approx. 600%
Tear strength (DIN 53515)	approx. 10 N/mm
Tensile shear strength (DIN EN 1465)	approx. 7 MPa
Shear modulus (DIN 54451)	approx. 1.3 MPa
Volume resistance (DIN 60093)	approx. 10 <sup>6</sup> Ωcm
Glass transition temperature	approx. -40°C
Temperaturbeständigkeit Short-term (approx. 1 hour)	< 80°C < 120°C
Stability (Storage < 25°C) Cartridge / Foilwrap Pail / Drum	12 months 6 months
Available in	310 ml cartridge, 400 ml & 600 ml foilwrap, 20 L pail, 200 L drum

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.**