

# DINITROL 790

## Windscreen adhesive

DINITROL 790 is a MS-polymer based high modulus windscreen adhesive with a very high initial tack and fast strength build up. DINITROL 790 has an excellent primerless adhesion on glass and windscreens with a ceramic frit and can be used to bond windscreens in motorhomes, cars, trucks, busses, etc.



- » Free from isocyanates, solvents, silicone and PVC
- » Fast strength build up and high modulus
- » Very good adhesion on ceramic screen printing and glass without primer and freshly cut back PU/MS residual beads
- » Very good UV-resistance and ageing properties
- » Very low conductivity
- » Safe drive away time of 1 hour (according to FMVSS212 with double airbag)
- » Short term resistance up to +200°C (10 minutes) in cured condition



### 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 790

Art. No.	Size	Package	Colour
12719	600 ml	Foilwrap	Black

# DINITROL 790

## Technical Details

### Product description

DINITROL 790 is a high modulus MS-polymer based windscreen adhesive with a very high initial tack and fast strength build up. DINITROL 790 has an excellent primerless adhesion on glass and windscreens with a ceramic frit and can be used to bond windscreens in motorhomes, cars, trucks, busses, etc. DINITROL 790 can be used in the direct glazing aftermarket and has excellent adhesion to freshly cut back (originally used) PU- and MS based windscreen adhesives. Due to its high initial strength, installation times can be reduced or fixing aids can be dispensed with completely.

### Application

- Bonding of (New and aftermarket) windows in motor homes, cars, trucks, busses, trains, etc.
- Elastic bondings in motorhome, bus-, train-, and truck construction.
- General bonding where a very high initial strength is required.

### How to use

DINITROL 790 can be applied with a hand-held, battery-operated or air-operated gun at temperatures from +5°C to 35°C. It is recommended to use the V-nozzle for bonding applications. Depending on the bonding surface, material expansion and mechanical stresses, a layer of 2 - 6 mm is recommended. The greater the difference in thermal expansion, of the substrates to be bonded, the thicker the adhesive layer should be. For further information on

this, please contact DINOL GmbH. For bonding, the substrates must be assembled within 15 minutes (at 20°C/50% rel. humidity) after application of DINITROL 790. The higher the temperature, the shorter the working time! At a temperature of 20°C and a relative humidity of 50 %, DINITROL 790 can be overcoated with most industrial paints after only 15 minutes. The best possible adhesion of paint coats is generally achieved when the paint is applied within 4 hours after application of DINITROL 790. Clean tools or remove uncured residues of DINITROL 790 with a clean, colourless cloth soaked in DINITROL 580 Spektrum Cleaner (it is recommended to check beforehand whether the surface is attacked by this cleaner).

### Adhesion

In general, DINITROL 790 adheres well without primer to clean, dry, dust- and grease-free substrates made of glass, ceramic screen-printed glass, aluminium, stainless steel, galvanised steel, zinc, copper, brass, powder-coated metal, most painted metal surfaces, various plastics, PVC, polyester (GRP), painted and varnished wood, etc. No adhesion without pre-treatment on polyethylene, polypropylene and Teflon®. It is recommended to clean the substrates with DINITROL 580 Spektrum Cleaner. An adhesion test before application is recommended. When high adhesion is required in cases of high thermal or physical stress, especially in humid environments, the use of DINITROL 545 is recommended. Important note: although DINITROL 790 is UV stable, in applications with transparent substrates the adhesive should always be protected against UV radiation by means of a suitable black primer or a masking profile. For properties on substrates not mentioned above and further information please contact DINOL GmbH directly.

### Storage

DINITROL 790 can be stored in a sealed (unopened) cartridge for 18 months in a dry place at a room temperature of +10°C to +30°C.

### Safety precautions

Please consult our current material safety data sheet for further information.

### Transport classification

Not applicable.

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

## Technical Data

Colour (standard)	black
Base material	MS Polymer
Curing/setting	moisture
Specific density	approx. 1,4 kg/l
Skin formation time (20°C/50% R.H.)	approx. 10 min.
Open time (20°C/50%R.H.)	< 15 min.
Curing speed after 24 hrs (20°C/50%R.H.)	approx. 3,5 mm
Shore A hardness (DIN 53505)	approx. 58
Volume change (DIN 52451)	< 3%
Tensile stress (100%) (DIN 53504/ISO 37)	approx. 1,7 MPa
Tensile stress at break (DIN 53504/ISO 37)	approx. 3,3 MPa
Elongation at break (DIN 53504/ISO 37)	approx. 300%
Shear stress (DIN 53283/ASTM D1002)	approx. 2,5 MPa
Tear strength (DIN 53515/ISO 34)	approx. 15 N/mm
E-Modulus (5-10%) (DIN 53515/ISO 34)	approx. 5 MPa
G-Modulus	approx. 2 MPa
Solvent percentage	0%
Isocyanate percentage	0%
Temperature resistance	-40°C till +100°C
Temperature resistance (max. 10 minutes)	+200°C
Application temperature	+5°C till +35°C
UV- and weather resistance	excellent
Available in	600 ml Foilwraps