

# Technical Data Sheet

## High Modulus/Nonconductive Urethane Adhesive

### DINITROL® D-9000

#### General description

DINITROL D-9000 is a black, one-component polyurethane with the following properties:

- high modulus
- nonconductive
- cold applied
- high viscosity
- meets all applicable FMVSS

The adhesive's high modulus property contributes remarkably to the stiffening increase of the car-body. The low electric conductivity makes D-9000 most suitable for the replacement of windshields that have an antenna incorporated. In the case of an aluminum car body, the electric insulating property of the product will prevent the danger of contact corrosion.

#### Shelf Life

12 months in an unopened cartridge.

#### Storage Requirements

Recommended storage temperature is between 15°C(60°F) and 30°C(90°F), in closed packaging.

#### Packaging

10.5 oz  
20.3 oz (foil-wrap)

#### Part#

D-9000  
D-9000FW

#### Required Pre-Treatment Products

- D-520 & D-530 or D-528 1-step
- D-540 PAAS Activator
- D-560 PVC-Activator (for PVC encapsulated glass)

#### Working Time

18 minutes at 23°C (73°F) and 50% RH

#### Tensile Strength

> 6.9 MPa (1000 psi)

#### Lap Shear Strength

- 3 hours > 0.7MPa (100 psi)
- 24 hours > 2.5 MPa (360 psi)
- 168 hours > 5.0 MPa (730 psi)

#### Shear Modulus

> 2.5 MPa "at 10% deformation"

#### Shore Hardness

Shore A 72

#### Elongation

290%

#### Electrical Resistivity

>10<sup>8</sup> ohms • cm

#### Installation Options

Full cut method leaving 2mm as a base.

All bonding areas have to be clean, dry and grease free. The glass side has to be pre-treated with the one-step-primer D-528 or with the system D-520 glass activator and D-530 glass/paint primer.

Remove the aluminum tab on the bottom of the cartridge. Cut nozzle to meet urethane dimensions as specified by the respective car manufacturer. Puncture top and attach pre-cut nozzle. Insert into gun.

If there is no existing urethane on the pinchweld to use as a substrate for D-9000, the one-step-primer D-528 or the glass/paint primer D-530 should be applied on the pinchweld for best results.

D-9000 can be applied on the glass or on the pinchweld.

#### Drive Away With Passenger Side Airbag

TEMP/RH	>70%	>50%	>30%	>10%
>115°F (46°C)	1 h	1 h	1 h	1 h
>85°F (30°C)	1 h	1 h	1 h	1 h
>73°F (23°C)	1 h	1 h	1 h	1 h
>60°F (15°C)	1 h	1 h	1 h	1 h
>50°F (10°C)	1 h	1 h	1 h	1 h
>40°F (5°C)	1 h	1 h	1 h	1 h
>32°F (0°C)	1 h	1 h	1 h	1 h
>23°F (-5°C)	1 h	1 h	1 h	1 h
>15°F (-10°C)	1 h	1 h	1 h	1 h
>0°F (-18°C)	1 h	1 h	1 h	1 h

#### Without Passenger Side Airbag

TEMP/RH	>70%	>50%	>30%	>10%
>115°F (46°C)	45 min	45 min	45 min	45 min
>85°F (30°C)	45 min	45 min	45 min	45 min
>73°F (23°C)	45 min	45 min	45 min	45 min
>60°F (15°C)	45 min	45 min	45 min	45 min
>50°F (10°C)	45 min	45 min	45 min	45 min
>40°F (5°C)	45 min	45 min	45 min	45 min
>32°F (0°C)	45 min	45 min	45 min	45 min
>23°F (-5°C)	45 min	45 min	45 min	45 min
>15°F (-10°C)	45 min	45 min	45 min	45 min
>0°F (-18°C)	45 min	45 min	45 min	45 min

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