

Technical Data Sheet

Super Quick Cure Urethane Adhesive

DINITROL® D-500

General description

D-500 is a one component black urethane adhesive system with the following benefits:

- Great decking
- Cost effective
- Wide mouth opening
- Solvent free
- OEM product
- Crash tested
- Meets applicable FMVSS

Shelf Life

12 months in an unopened cartridge

Storage Requirements

Recommended storage temperature is between 15°C (60°F) and 30 °C (90°F)

Packaging

10.5 oz Cartridge

Part#

D-500

20.3 oz Foil-Wrap

D-500FW

Working Time

35-40 minutes at 23 °C (73 °F) and 50%RH

Tensile Strength

9.0 MPa (1300 psi)

Lap Shear Strength

- 2 hours 0.25 MPa (36 psi)
- 3 hours 0.70 MPa (100 psi)
- 24 hours 6.0 MPa (870 psi)
- 7 days 6.3 MPa (910 psi)

Shear Modulus

1.1 MPa

Shore Hardness

Shore A 50

Elongation

600%

Electrical Resistivity

10 Kilo-ohms · cm

Required Pre-Treatment Products

- D-520 & D-530 or D-528 1-Step
- D-540 for PAAS only (VW & Audi glass and to be used with high modulus urethane)
- D-560 PVC-Activator (for PVC encapsulated glass)

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 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-500, the one-step primer D-528 or the glass/paint primer D-530 should be applied on the pinchweld for best result. D-500 can be applied on the glass or on the pinchweld.

Important Notes:

Glass installation is not recommended at temperatures below 5 °C (40 °F). This includes air, glass, pinchweld and urethane temperatures. If temperatures are less than 5 °C (40 °F) then glass replacement should be performed in a heated shop or an approved urethane like D-9000 should be used.

You must always apply a Dinitrol blackout primer system to the bonding surface of the glass when using D-500 urethane. See detailed instructions packaged with urethane.

Drive Away With Passenger Side Airbag

RH/ TEMP	>70%	>50%	>30%	>10%
>85 °F (30°C)	3 hrs	3 hrs	4 hrs	10 hrs
>73 °F (23°C)	3 hrs	3 hrs	5 hrs	12 hrs
>60 °F (15°C)	4 hrs	5 hrs	6 hrs	16 hrs
>50 °F (10°C)	6 hrs	8 hrs	12 hrs	24 hrs
*>40 °F (5°C)	15 hrs	18 hrs	20 hrs	30 hrs

Without Passenger Side Airbag

RH/ TEMP	>70%	>50%	>30%	>10%
>85 °F (30°C)	1.5 hrs	1.5 hrs	3 hrs	6 hrs
>73 °F (23°C)	2 hrs	2 hrs	3 hrs	8 hrs
>60 °F (15°C)	3 hrs	3 hrs	5 hrs	14 hrs
>50 °F (10°C)	5 hrs	5 hrs	8 hrs	16 hrs
*>40 °F (5°C)	12 hrs	15 hrs	18 hrs	28 hrs

***Application at or below 40°F is Not Recommended**

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