

Technical Data Sheet

Super Quick Cure Urethane Adhesive

DINITROL® D-500SA

General description

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

- Good decking
- Super adhesion properties
- Solvent free
- Narrow closed nozzles enclosed
- Meets all applicable FMVSS

Shelf Life

9 months in an unopened cartridge

Storage Requirements

Recommended storage temperature is between 5°C (40°F) and 27°C (80°F)

Packaging Part

10.5 oz Cartridge D-500SA

Working Time

28 minutes at 23°C (73°F) and 50% RH

Tensile Strength

8.3 MPa (1200 psi)

Lap Shear Strength

- 1 hour 0.12 MPa (17 psi)
- 3 hours 0.74 MPa (110 psi)
- 24 hours 3.1 MPa (440 psi)
- 7 days 6.1 MPa (880 psi)

Shear Modulus

1.6 MPa

Shore Hardness

Shore A 64

Elongation

350%

Electrical Resistivity

10 Mega-ohms • cm

Required Pre-Treatment Products

- D-520 & 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-500SA, the one-step primer D-528 or the glass/paint primer D-530 should be applied on the pinchweld for best result. D-500SA 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-500SA 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	4 hrs	7 hrs	15 hrs
>73 °F (23°C)	5 hrs	6 hrs	10 hrs	22 hrs
>60 °F (15°C)	6 hrs	7 hrs	11 hrs	22 hrs
>50 °F (10°C)	7 hrs	8 hrs	14 hrs	25 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)	2 hrs	2 hrs	4 hrs	14 hrs
>73 °F (23°C)	4 hrs	4 hrs	6 hrs	22 hrs
>60 °F (15°C)	5 hrs	5 hrs	10 hrs	25 hrs
>50 °F (10°C)	12 hrs	15 hrs	18 hrs	28 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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