

Technical Data Sheet

Super Quick Cure Urethane Adhesive

DINITROL® D-501HV

General description

D-501HV is a one component black urethane adhesive system with the following benefits:

- High viscosity
- Standard modulus
- Super quick curing
- Solvent free
- OEM approved
- Meets applicable FMVSS

Shelf Life

12 months in an unopened cartridge

Storage Requirements

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

Packaging

10.5 oz Cartridge

20.3 oz Foil-Wrap

Part

D-501HV

D-501HVFW

Working Time

20 minutes at 23°C (73°F) and 50% RH

Tensile Strength

10 MPa (1400 psi)

Lap Shear Strength

- 1 hour 0.19 MPa (27 psi)
- 2 hours 0.50 MPa (73 psi)
- 3 hours 0.84 MPa (120 psi)
- 24 hours 3.5 Mpa (500 psi)
- 7 days 7.5 MPa (1100 psi)

Shear Modulus

1.1 MPa

Shore Hardness

Shore A 52

Elongation

700%

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

Full cut method leaving 2 mm 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-501HV, the one-step primer D-528 or the glass/paint primer D-530 should be applied on the pinchweld for best result. D-501HV 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 done in a heated shop or an approved urethane like D-9000 should be used.

You must always apply Dinitrol black out primer system to the bonding surface of the glass when using D-501HV urethane. See detailed Instructions.

Drive Away With Passenger Side Airbag

RH/TEMP	>70%	>50%	>30%	>10%
>85 °F (30°C)	1.5 hr	2 hrs	3 hrs	8 hrs
>73 °F (23°C)	2 hrs	2 hrs	4 hrs	10 hrs
>60 °F (15°C)	3 hrs	3 hrs	5 hrs	16 hrs
>50 °F (10°C)	5 hrs	5 hrs	12 hrs	24 hrs
*>40 °F (5°C)	9 hrs	9 hrs	18 hrs	30 hrs

Without Passenger Side Airbag

RH/TEMP	>70%	>50%	>30%	>10%
>85 °F (30°C)	1 hr	1 hr	2 hrs	5 hrs
>73 °F (23°C)	1 hr	1 hr	2 hrs	6 hrs
>60 °F (15°C)	2 hrs	2 hrs	3 hrs	12 hrs
>50 °F (10°C)	4 hrs	4 hrs	8 hrs	18 hrs
*>40 °F (5°C)	7 hrs	9 hrs	15 hrs	30 hrs

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

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