

Technical Data Sheet

Super Quick Cure Urethane Adhesive

DINITROL® D-501HVHM

General description

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

- High viscosity
- High modulus
- Excellent decking
- Super quick curing
- Solvent free
- OEM product
- Crash tested
- Meets applicable FMVSS
- Wide mouth opening

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

20.3 oz Foil-Wrap

Part

D-501HVHM

D-501HVHMFW

Working Time

20 minutes at 23°C (73°F) and 50% RH

Tensile Strength

10 MPa (1500 psi)

Lap Shear Strength

- 1 hour 0.32 MPa (45 psi)
- 3 hours 1.8 MPa (260 psi)
- 24 hours 5.2 MPa (750 psi)
- 7 days 8.8 MPa (1300 psi)

Shear Modulus

2.5 MPa

Shore Hardness

Shore A 67

Elongation

300%

Electrical Resistivity

10 mega-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 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-501HVHM, the one-step primer D-528 or the glass/paint primer D-530 should be applied on the pinchweld for best result. D-501HVHM 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. To avoid risk of skin formation prior to setting glass, glass must be set immediately after application especially in excessive heat and humid conditions.

You must always apply a Dinitrol black out primer system to the bonding surface of the glass when using this product with the exception of a few PAAS applications. See detailed Instructions packaged with urethane.

Drive Away With Passenger Side Airbag

RH/TEMP	>70%	>50%	>30%	>10%
>85 °F (30°C)	1 hr	1.5 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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