



Dow Automotive

Provisional

Technical Data Sheet

BETAMATE 7170

Description / Application:

One-component, high-viscosity, atmospheric (humidity)-curing polyurethane bonding compound with excellent paint adhesion. Due to these qualities a higher body stiffness can be reached by using this material in the field of direct glazing. The curing speed can be fastened in combination with an accelerator paste.

All Dow Automotive products are primarily developed in co-operation with the automobile manufacturers, according to their needs and their specifications; they are approved for the specific applications as defined by the customer.

The use of the product other than approved application have to be released in written form by the Technical Service of Dow Automotive.

Technical Data:

Basis	polyurethane prepolymer
Colour	black
Density	App. 1.25 g/cm ³ at 23°C
Solid content	> 98%
Flash point	> 100°C
Processing temperature	50°C-60°C
Open time	Max. 20 min at 23°C/50% rh
Sagging behavior	good
Tack-free time	approx. 20 min at 23°C/50% rh
Cure rate	Without accelerator > 2.7 mm in 24 h at 23°C/50% rh With accelerator paste: 24 - 48 hours (it depends on mixing ratio)
Mixing ratio (accelerated)	A: 100 parts, B: 1-3 parts
Tensile strength (DIN 53 504)	> 5 N/mm ²
Elongation at break (DIN 53 504)	approx. 300%
Lap shear resistance (EN 1465)	>4 N/mm ² after 7 d 23°C/50% rh
G-Modulus	> 2.2 MPa at 10% strain after 7 days 23°C

Specific electrical volume resistivity	> 108 Ohm cm
Temperature stability	-40°C to 100°C
Resistance to chemicals	Highly resistant to aqueous chemicals, petrol, alcohol and mineral oils; conditionally resistant to esters, ketones, aromatics and chlorinated hydrocarbons
Bonding surface preparation	All bonding surfaces must be free of dirt, dust, water, oil and grease. Glass surfaces should be primed. Verify compatibility or consult our technical service department.
Processing equipment	Drums, pails: commercial pumping and mixing system with connection to automatic applicator, if required.
Cleaning	Uncured BETAMATE 7170 residues can easily be removed with BETACLEAN 3500. Hardened BETAMATE 7170 residues can only be removed mechanically.
Shelf life	Immerse equipment in BETACLEAN 3000 Short time storage temperatures: -10°C to 40°C 4 months at +5°C to +25°C in unopened containers. (See "use before" date printed on container.)
Containers	Drums: 22 litres and 200 litres
Protection measures	See health and safety data sheet.

Dow Automotive quality assurance

Quality is our utmost goal. Dow Automotive works according to a modern quality management system conforming to ISO/TS 16949:2002. Environment: All sites of Dow Automotive are conforming to ISO 14001:2004.

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