



BETAMATE™ 7120

Short Description

One component, moisture curing adhesive with excellent sag and bead stability based on polyurethane chemistry. The adhesive cures with environmental moisture and skin formation and curing is dependent on humidity, temperature and application dimensions.

Properties

Cold processable, medium viscosity, low modulus adhesive with excellent UV stability attributes. It is primerless to paint on automotive paints.

Application

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 Systems.

Technical Data

Unless specified otherwise test are conducted at 23°C/50% relative humidity.

Basis	Polyurethane prepolymers
Colour	black
Density	1.22 - 1.26 g/cm ³
Solid contents	min 98%
Viscosity Extrusion, Ballan at 23°C, 4mm nozzle / 4bar	12 - 20 g/min
Processing temperature	10 - 40°C
Skinning time	25 - 45 min
Cure rate after 48h	min 3.5 mm
Sagging, on vertical wall tilting	max 30°
Hardness Shore A (DIN 53 505)	55 - 65
Lap shear strength (DIN EN 1465)	min 5.0 MPa after 7d
Tensile strength (DIN 53 504)	9 MPa
Elongation at break (DIN 53504)	> 500%
G-Modulus	1.0 - 1.5 MPa
Specific electrical volume resistivity	10 ⁶ Ωcm
Temperature stability	-40°C to 100°C
Resistance to chemicals	Highly resistant to aqueous chemicals, petrol, alcohol and mineral oils; conditionally to esters, ketones, aromatics and chlorinated hydrocarbons.
Bonding surface preparation	All bonding surfaces must be free of dirt, dust, water, oil and grease. In general surfaces should be primed. Verify compatibility or consult our technical service department.
Cleaning	Uncured adhesive residues can easily be removed with BETACLEAN 3500. Hardened adhesive residues can only be removed mechanically. Immerse equipment in BETACLEAN 3000.
Shelf life	Short time storage temperatures: 0°C to 40°C. 6 months at +5°C to +25°C in unopened containers.
Containers	Cartridges / Pails / Drums

**Health and Safety**

The use of polyurethane adhesives is generally harmless and as long as the basic rules for safe handling of chemicals are applied. However, the direct contact of uncured adhesive with food and food containers should be avoided. It is mandatory to use protective measures in order to prevent direct skin contact. Suitable gloves and eye protection are essential. Should the skin come into contact with uncured adhesive, it must be rinsed first with warm water and then cleaned thoroughly with conventional soap. Cleaning skin with solvents must be avoided. It is essential to ensure good ventilation. For detailed protective measures refer to the Material Safety Data Sheets.

Dow Automotive Systems Quality Assurance

Quality is our utmost goal. Dow Automotive works according to a modern quality management system conforming to ISO/TS 16949.

Environment: All sites of Dow Automotive are conforming to ISO 14001.

All statements, technical information and recommendations contained in this document are based on tests that we believe are reliable.

However, the accuracy or completeness of the statements, information and recommendations is not guaranteed, as before using, the user should determine the suitability of the product for user's intended purpose.

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