



# BETAMATE™ 2700 (A+B)

## Short Description

2-component polyurethane based adhesive and sealing system. BETAMATE 2700 (A+B) is high viscous and cures independent from humidity.

## Properties

- Designed for glass and structural bonding
- Long open time
- Good sagging properties
- Very good elongation properties
- Excellent long term durability under dynamic stress

## 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

The following technical data and information should be considered as typical only and should not be used for specification purposes. Unless specified otherwise test are conducted at 23 °C/50% relative humidity.

<b>Basis</b>	A: Polyurethane prepolymers	B: Polyurethane prepolymers (Accelerator)
<b>Colour</b>	A: black	B: black
<b>Density</b>	A: 1.25 g/cm <sup>3</sup>	B: 1.28 g/cm <sup>3</sup>
<b>Solid contents</b>	min 98%	
<b>Viscosity Extrusion, Ballan at 23°C, 4mm nozzle / 4bar</b>	A: 15 - 22 g/min	B: 9 - 17 g/min
<b>Processing temperature</b>	10 - 40°C	
<b>Working time</b>	18 -25 min	
<b>Sagging, on vertical wall tilting</b>	very good, non-sagging, max. 30°	
<b>Tensile strength (DIN EN ISO 527-2)</b>	> 5.5 MPa	
<b>Lap shear strength (DIN EN 1465) after 24h</b>	min 4.0 MPa	
<b>Elongation at break (DIN EN ISO 527-2)</b>	> 600%	
<b>Hardness Shore A (DIN 53 505)</b>	40 - 55	
<b>G-Modulus (DIN EN 14869-2)</b>	0.8 - 1.0 MPa	
<b>Abrasion resistance</b>	extreme high	
<b>Temperature stability</b>	-40 bis 100°C, short term in cured state up to 140°C	
<b>Resistance to chemicals</b>	Highly resistant to aqueous chemicals, petrol, alcohol and mineral oils; conditionally to esters, ketones, aromatics and chlorinated hydrocarbons. For a detailed list of tested chemicals contact our technical service.	

**Bonding surface preparation**

All bonding surfaces must be free of dirt, dust, water, oil and grease. It's recommended to use a primer or activator for the pretreatment of the bonding surfaces. Please contact our Technical Service for assistance.

**Work instruction**

To guarantee a homogenous mixing of the components the first 20 cm of the adhesive bead should be disposed.

**Equipment to handle**

BETAMATE 2700 (A+B) is mixed dynamically. A special dynamic mixing unit is part of each set.

Our electro-mechanical application device BETAGUN™ is specially designed to process the BETAMATE 2700 (A+B) sets to ensure an optimal processing and handling of the adhesive.

**Cleaning**

Uncured BETAMATE 2700 (A+B) can be removed with BETACLEAN 3000, 3350 or 3500. Cured BETAMATE 2700 (A+B) can only be removed mechanically. Contaminated equipment can be cleaned with BETACLEAN 3000 or 3350.

**Shelf life**

6 months at +5°C to +25°C in original box. Store cool and dry

**Containers**

2 x 290 ml cartridge set; other packings upon request

**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 16949:2002. All sites of Dow Automotive are conforming to ISO 14001:2004.

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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