

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.

Basis	A: Polyurethane prepolymers	B: Polyurethane prepolymers (Accelerator)	
Colour	A: black	B: black	
Density	A: 1.25 g/cm ³	B: 1.28 g/cm ³	
Solid contents	min 98%		
Viscosity Extrusion, Ballan at 23°C, 4mm nozzle / 4bar	A: 15 - 22 g/min	B: 9 - 17 g/min	
Processing temperature	10 - 40°C		
Working time	18 -25 min		
Sagging, on vertical wall tilting	very good, non-sagging, max. 3	0°	
Tensile strength (DIN EN ISO 527-2)	> 5.5 MPa		
Lap shear strength (DIN EN 1465) after 24h	min 4.0 MPa		
Elongation at break (DIN EN ISO 527-2)	> 600%		
Hardness Shore A (DIN 53 505)	40 - 55		
G-Modulus (DIN EN 14869-2)	0.8 - 1.0 MPa		
Abrasion restistance	extreme high		
Temperature stability	-40 bis100°C, short term in cured state up to 140°C		
Resistance to chemicals	Highly resistant to aqueous che mineral oils; conditionally to est chlorinated hydrocarbons. For a 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 homogenius mixing of the components the first 20 cm of the adhesive bead should be disposed.
Equiment 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 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 month 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.

This document does not create any liability and all warranties, express or implied, including the implied warranties of merchantability and fitness for a particular purpose are disclaimed. Neither seller nor manufacturer shall be liable either in contract or tort for any loss or damage, direct, incidental, or consequential, arising out of the use and or the inability to use the product. Seller's/manufacturer's only obligation is the replacement of defective product.

Dow Automotive Systems Main Offices

The Dow Chemical Company	Dow Automotive Systems World Head Quarter	Dow Automotive Systems	Dow Automotive Systems
Customer Information		Dow Deutschland	Dow Europe GmbH
Group Europe	1250 Harmon Road	Anlagengesellschaft GmbH	Bachtobelstrasse 3
	Auburn Hills, MI 48326	Am Kronberger Hang 4	8810 Horgen
Phone +800 3 6946367	USA	65824 Schwalbach	Switzerland
Phone +32 3 450 2240	Tel. +1 248 391 63 00	Germany	Tel. +41 44 728 2111
Italia 800 783 825	Fax +1 248 391 64 17	Tel: +49 6196 566 0	Fax. +41 44 728 2935
Fax +32 3 450 2815		Fax: +49 6196 566 444	
Dow Automotive Systems	Dow Automotive Systems	Dow Automotive Systems	Dow Automotive Systems
St. George's Way	Dow Chemical Ibérica, S.L.	Dow France S.A.S.	Dow Italia Divisione
	Ribera del Loira, 4-6 - Planta	23 avenue Jules Rimet	Commerciale s.r.l.
Bermuda Industrial Estate			
	4 ^a (Edificio IRIS)	93631 La Plaine St Denis	Via F. Albani, 65
Nuneaton CV10 7QT	4ª (Edificio IRIS) 28042 Madrid	93631 La Plaine St Denis Cedex	Via F. Albani, 65 20148 Milano
Nuneaton CV10 7QT United Kingdom	. ,		
Bermuda Industrial Estate Nuneaton CV10 7QT United Kingdom Tel: + 44 24 7635 7200 Fax: + 44 24 7635 7257	28042 Madrid	Cedex	20148 Milano



NOTICE: No freedom from any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change over time, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer's use and for ensuring that the Customer's workplace and disposal practices are in compliance with the applicable laws and other governmental enactments. Dow assumes no obligations or liability for the information in this document. No warranties are given. Dow Automotive Systems is a business unit of The Dow Chemical Company.