



# BETASEAL™ 1125

## Short Description

One component, moisture curing, solvent free 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, high viscosity, medium modulus, non conductive glass and trim bonding adhesive can be used primerless on paint. It has excellent UV stability and can be used for gap or back filling applications on Commercial vehicles

## 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	1.26 - 1.30 g/cm <sup>3</sup>
Solid contents	min 98%
Viscosity Extrusion, Ballan at 23°C, 4mm nozzle / 4bar	35 - 55 g/min
Processing temperature	10 - 40°C
Skinning time	20 - 40 min
Cure rate after 24h	min 3.0 mm
Sagging, on vertical wall tilting	max 30°
Hardness Shore A (DIN 53 505)	55 - 65
Lap shear strength (DIN EN 1465)	min 4.5 MPa after 7d
Tensile strength (DIN 53 504)	6 MPa
Elongation at break (DIN 53504)	> 350%
G-Modulus	1.8 -2.4 MPa
Specific electrical volume resistivity	10 <sup>10</sup> 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 / Sausages

**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.

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**

<p><b>The Dow Chemical Company</b> Customer Information Group Europe</p> <p>Phone +800 3 6946367 Phone +32 3 450 2240 Italia 800 783 825 Fax +32 3 450 2815</p>	<p><b>Dow Automotive Systems</b> World Head Quarter</p> <p>1250 Harmon Road Auburn Hills, MI 48326 USA Tel. +1 248 391 63 00 Fax +1 248 391 64 17</p>	<p><b>Dow Automotive Systems</b></p> <p>Dow Deutschland Anlagengesellschaft GmbH Am Kronberger Hang 4 65824 Schwalbach Germany Tel: +49 6196 566 0 Fax: +49 6196 566 444</p>	<p><b>Dow Automotive Systems</b></p> <p>Dow Europe GmbH Bachtobelstrasse 3 CH-8810 Horgen Switzerland Tel. +41 (0) 44 728 2111 Fax. +41 (0) 44 728 2935</p>
<p><b>Dow Automotive Systems</b></p> <p>Dow Chemical Ibérica, S.L. Ribera del Loira, 4-6 - Planta 4ª (Edificio IRIS) 28042 Madrid Spain Tel. + 34 91 740 7800 Fax. + 34 91 740 7785</p>	<p><b>Dow Automotive Systems</b></p> <p>Dow France S.A.S. 23 avenue Jules Rimet 93631 La Plaine St Denis Cedex France Tel: +33 1 49 21 78 78 Fax: +33 1 49 21 79 79</p>	<p><b>Dow Automotive Systems</b></p> <p>Dow Italia Divisione Commerciale s.r.l. Via F. Albani, 65 - 20148 Milano Italy Tel: +39 02 482 21 Fax: +39 02 482 241 08</p>	

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.