



**Dow Automotive**

## Technical Datasheet

Aftermarket Division

# BETAFILL 10210 / 10211 / 10215

### Description / Application:

These products are one component moisture curing polyurethane seam sealants with permanent elasticity and good adhesion to different substrates.

They are excellent seam sealers for body repair, e.g. for sealing, filling and finishing. They also show excellent sealer combining medium strength bonding and sealing properties in a wet one-step operation.

These products can be abraded and are over-paintable with most of the paint systems.

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:

Composition	polyurethane prepolymers
Colour	10210 white 10211 grey 10215 black
Density (23°C)	1,20 g/ml ± 0,05 g/ml
Viscosity (23°C) (Haake RU 20, 115 OSC, PK 2-1,0; D= 1s <sup>-1</sup> )	< 260 Pa.s
Skin Formation Time (23°C / 50%r.h.)	30 min. ± 5 min.
Curing Speed (23°C / 50%r.h.)	approx. 3 mm / 24 h
Application Temperature	+5° C to + 35° C
Open Time	max. 15 min.
Shrinkage (DIN 52 451)	5,5 % ± 0.5 % (after 14d RT + 7d70°C)
Shore A Hardness (DIN 53 505)	45 ± 5
Tensile Stress at 200% Elongation	0,9 MPa ± 0,1 MPa

**(DIN 54 504)**

<b>Tensile Strength (DIN 54 504)</b>	2,6 MPa ± 0,3 MPa
<b>Elongation at Break (DIN 54 504)</b>	approx. 450 %
<b>Lap Shear Strength (EN 1465)</b>	1,8 MPa ± 0,3 MPa (bond thickness: 2mm)
<b>Tear Strength (DIN 53515)</b>	9 N/mm ± 1 N/mm
<b>Temperature Resistance</b>	-40° C to +80° C (short term up to +120° C) in cured condition
<b>Shelf Life</b>	9 month Cartridge and Sausages with storage at +5° C to +25° C in unopened containers 6 month Pails and Drums
<b>Range of Adhesion</b>	<b>Suitable</b> for use on coated sheet metal, aluminium, stainless steel, GRP, PUR-RIM, Polycarbonate, PUR-plasticised PUR-hard, PVC, wood and glass. <b>Not suitable</b> on Polyethylene, polypropylene, silicone, fluorinated plastics and some plasticised plastics.
<b>Surface Preparation</b>	All surfaces must be free of dirt, dust, grease and oil. Use primers if necessary. Usually one cleaning with BETACLEAN 3350 is sufficient. In special cases and for a long term adhesive-bonded joint, partial pretreatment with activators and/or primers is necessary. Please ask our technical service department.  <b>Attention:</b> Do not use alcohol or nitro-dilution for cleaning!
<b>Over-paintability</b>	
- paints without alcohol - paints containing alcohol	wet- on- wet please wait 60 to 90 minutes.
<b>Packaging</b>	Cartridge with 310 ml in boxes of 12 cartridges Sausages with 300 ml or 600 ml Pails 22 l Drums 200 l
<b>Chemical Resistance (in cured conditions)</b>	Good against aqueous chemicals, gasoline and alcohol; fairly good against esters, ketones, aromatic and chlorinated hydrocarbons.
<b>Dispensing Equipment</b>	Use hand or air gun. We recommend air guns with rams.
<b>Cleaning after application</b>	Uncured material can be removed with BETACLEAN 3350. Cured material can only be removed mechanically. Attention: Do not use BETACLEN 3500 for surface preparation.
<b>Safety Precautions</b>	See health and safety data sheet

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## 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.

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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