



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 ⁻¹)	< 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 (DIN 54 504)	0,9 MPa ± 0,1 MPa
Tensile Strength (DIN 54 504)	2,6 MPa ± 0,3 MPa
Elongation at Break (DIN 54 504)	approx. 450 %
Lap Shear Strength (EN 1465)	1,8 MPa ± 0,3 MPa (bond thickness: 2mm)
Tear Strength (DIN 53515)	9 N/mm ± 1 N/mm
Temperature Resistance	-40° C to +80° C (short term up to +120° C) in cured condition
Shelf Life	9 month Cartridge and Sausages with storage at +5° C to +25° C in unopened containers 6 month Pails and Drums
Range of Adhesion	Suitable for use on coated sheet metal, aluminium, stainless steel, GRP, PUR-RIM, Polycarbonate, PUR-plasticised PUR-hard, PVC, wood and glass. Not suitable on Polyethylene, polypropylene, silicone, fluorinated plastics and some plasticised plastics.
Surface Preparation	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. Attention: Do not use alcohol or nitro-dilution for cleaning!

Over-paintability

- paints without alcohol
- paints containing alcohol

wet- on- wet
please wait 60 to 90 minutes.

Packaging

Cartridge with 310 ml in boxes of 12 cartridges
Sausages with 300 ml or 600 ml
Pails 22 l
Drums 200 l

Chemical Resistance (in cured conditions)

Good against aqueous chemicals, gasoline and alcohol;
fairly good against esters, ketones, aromatic and
chlorinated hydrocarbons.

Dispensing Equipment

Use hand or air gun. We recommend air guns with rams.

Cleaning after application

Uncured material can be removed with BETACLEAN
3350.

Cured material can only be removed mechanically.

Attention: Do not use BETACLEN 3500 for surface
preparation.

Safety Precautions

See health and safety data sheet

Dow Automotive Quality Management

Quality is our highest priority. Dow Automotive works with a highly modern Quality Management System which meets all international requirements of QS 9000, VDA-6 and ISO 9001.

The above information implies no liability as to the usage of our products. Since the applications, utilisation and processing of our products are beyond our control, the information given is not intended to replace your own trials with the products to establish their suitability for your particular application.

Our liability is limited to the value of the products supplied by us and used by you.

The information on this data sheet corresponds to the latest findings and supersedes all previous versions.

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Tear strength corrected acc. to the test results