



## Adhesives & Sealants

### BONDFLEX 290 LM

#### Technical Data Sheet

Reviewed: 06.06.2015



#### DESCRIPTION

**BONDFLEX 290LM** is a high quality, super elastic, one component, polyurethane sealant for bonding, sealing and filling joints in the building industry.

#### ADVANTAGES

- Highly elastic
- Excellent adhesion
- Rapid polymerization
- Excellent resistance against all atmospheric conditions
- Can be painted

#### APPLICATIONS

- Sealing of floor joints and connection joints in building constructions
- All usual building joints with medium to high movement (min. width: 4 mm)
- All sealing and bonding applications in building and metal industries
- Connection joints between window - doorframes and walls
- Sealing joints of bituminous waterproofing membranes

#### INSTRUCTIONS FOR USE

1. Surfaces must be clean, free of dust and grease
2. In very warm and moist climates we recommend the use of PRIMER PU for applications on porous surfaces
3. Use caulking gun
4. Repair with **BONDFLEX 290 LM**
5. Finish with soapy water before skin formation
6. Cured material may be painted with most paints. When painted with oxidative drying paints disturbances in the drying of the paints may occur

**A suitability test is recommended**  
**Not recommended for applications on PVC & glass**

#### JOINT SIZE

**Minimum thickness:** 5mm

**Maximum Width:** 30mm

**Minimum Depth:** 5mm

**Recommendation:** 2 X depth = width

#### REMARKS

**BONDFLEX 290 LM** is very elastic while most paints are not. Therefore the painted surface may crack in joints with movement. Because of the diversity of paints available a compatibility test is recommended before application.

**BONDFLEX 290 LM** must not be applied to frost-bearing surfaces or if temperature will fall below freezing.

#### CLEANING

Clean all equipment with white spirit immediately after use

#### TECHNICAL CHARACTERISTICS

**Base:** Polyurethane

**Colour:** White, gray, ceramic red, beige, brown

**Consistency:** Paste.

**Curing System:** Moisture Cure

**Skin formation (20°C/ 65% R.H.):** Ca. 15 min.

**Curing Rate (20°C/ 65% R.H.):** 1,5mm /24h

**Hardness (DIN 53505):** 25 ± 5 Shore A

**Specific gravity (DIN 53479):** 1,40 gr/ml

**Temperature Resistance:** -30°C to +90°C.

**Elastical Recovery (ISO 7389):** > 80%

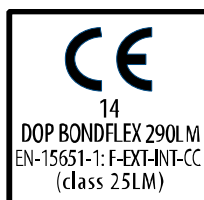
**Maximum allowed Distortion:** 25%

**Elasticity Modulus 100% (DIN 53504):** 0,1-0,2 N/mm<sup>2</sup>

**Maximum Tension (DIN 53504):** 0,4-0,5 N/mm<sup>2</sup>

**Elongation at Break (DIN 53504):** > 800%

**Application temperature:** +1°C - +30°C



#### STORAGE

In a cool and dry place at temperatures between +5°C - +25°C

#### SHELF LIFE

12 months in unopened packaging in the above mentioned storage conditions

#### PACKAGING

Cartridges 310ml white, gray, ceramic red, beige, brown  
Sausages 600ml white, gray

PACKAGING	CODE	BARCODE
310ml white	4200	5204094042006
310ml gray	04201	5204094042013
310ml ceramic red	4223	5204094042235
310ml beige	4230	5204094042303
310ml brown	4231	5204094042310
600 ml white	4202	5204094042020
600 ml gray	04203	5204094042037

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#### HEALTH AND SAFETY INFORMATION



**Acute Tox. 4: H312** - Harmful in contact with skin **Resp. Sens.**

**1: H334** - May cause allergy or asthma symptoms or breathing difficulties if inhaled **P261**: Avoid breathing dust / fume / gas / mist / vapours / spray **P302+P352**: IF ON SKIN: Wash with plenty of soap and water **P304+P341**: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing **P312**: Call a POISON CENTER or doctor / physician if you feel unwell **P322**: Specific measures need to be taken (see this label) **P363**: Wash contaminated clothing before reuse **EUH204**: Contains isocyanates. May produce an allergic reaction **EUH208**: Contains 4,4'-methylenediphenyl diisocyanate. May produce an allergic reaction Substances that contribute to the classification: 4,4'-methylenediphenyl diisocyanate (CAS: 101-68-8); Xylene (mixture of isomers) (CAS: 1330-20-7)

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.



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