



## Adhesives & Sealants

# BONDFLEX 450 FC MARINE

### Technical Data Sheet

Reviewed: 06.06.2015



#### DESCRIPTION

**BONDFLEX 450 FC MARINE** is a high quality, extra strong, one-component, elastic, marine grade polyurethane sealant, suitable for a wide range of sealing and bonding applications in building and shipbuilding industries.

#### ADVANTAGES

- Excellent adhesion
- Stays elastic after curing
- Excellent resistance to many chemicals
- Excellent resistance to fresh and salt water and alkalis
- Maintains its properties even at low temperatures down to  $-30^{\circ}\text{C}$
- Paintable

#### APPLICATIONS

- All sealing and bonding applications in the building and metal industry
- Especially developed for concrete applications
- Suitable for polyester, metals and most plastics
- Sealing of joints in bituminous membranes
- Sealing and bonding applications in automotive industry

#### 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 450 FC MARINE**.
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 and glass**

#### JOINT SIZE

**Minimum thickness:** 2mm (bonding)  
5mm (joints)

**Maximum thickness:** 10mm (bonding)  
30mm (joints)

**Minimum Depth:** 5mm (joints)

**Recommendation:** joints  $\leq 12\text{mm}$  depth = width  
joints  $>12\text{mm}$  2 X depth = width

#### CLEANING

Clean all equipment with white spirit immediately after use

#### TECHNICAL CHARACTERISTICS

**Base:** Polyurethane

**Colour:** White

**Consistency:** Paste

**Curing System:** Moisture Cure

**Skin formation (20°C/ 65% R.H.):** 20-25 min

**Curing Rate (20°C/ 65% R.H.):** 3mm /24h

**Hardness (DIN 53505):**  $45 \pm 5$  Shore A

**Specific gravity (DIN 53479):** 1,30 gr/ml

**Temperature Resistance:**  $-30^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$

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

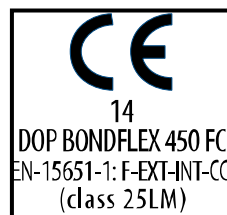
**Maximum allowed Distortion:** 20%

**Elasticity Modulus 100% (DIN 53504):** 0,80 N/mm<sup>2</sup>

**Maximum Tension (DIN 53504):** 1,70 N/mm<sup>2</sup>

**Elongation at Break (DIN 53504):** 700%

**Application temperature:**  $+5^{\circ}\text{C}$  -  $+35^{\circ}\text{C}$



#### STORAGE

In a cool and dry place at temperatures between  $+5^{\circ}\text{C}$  -  $+25^{\circ}\text{C}$

#### SHELF LIFE

12 months in unopened packaging in the above mentioned storage conditions

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#### PACKAGING

Cartridges 310 ml white  
Sausages 600 ml white  
Tubes 80ml white

PACKAGING	CODE	BARCODE
80ml white	4228	5204094042280
310ml white	04260	5204094042600
600 ml white	04261	5204094042617

#### 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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