



Adhesives & Sealants

BONDFLEX 390FC

Technical Data Sheet

Reviewed: 06.06.2025

DESCRIPTION

BONDFLEX 390FC is a multipurpose, elastic adhesive and joint sealant based on 100% polyurethane of very high standards. It is suitable for bonding, sealing, fixing, waterproofing and insulation in construction and building industry, shipbuilding industry and general constructions. Due to the special silane adhesion promoters, it exhibits excellent anchoring to most construction materials. It is recommended for interior and exterior use.

ADVANTAGES

- Fast curing
- New formulation – no sagging
- Excellent bonding strength on almost all surfaces
- Excellent adhesion
- Very good weather resistance
- Good UV resistance
- Low VOC emissions
- Low isocyanate content
- Anti-vibration properties
- Non-corrosive
- High and permanent elasticity
- Paintable

APPLICATIONS

- All sealing, waterproofing and bonding applications in building and metal industries.
- Sealing applications in shipbuilding industry.
- Structural anti-vibration bonding and sealing in structures subject to vibrations.
- Bonding and sealing of metal car joints.
- All kinds of structural bonding and sealing applications.
- Sealing in horizontal and vertical joints, both internally and externally.

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 900** for applications on porous surfaces.
3. Use caulking gun.
4. Repair with **BONDFLEX 390 FC**.
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 glazing applications and PVC.

JOINT SIZE

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

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

Minimum Depth: 5mm (joints)

Recommendation: joints ≤ 12mm depth = width

Joints >12mm 2 X depth = width

CLEANING

Clean all equipment with white spirit immediately after use.

TECHNICAL CHARACTERISTICS

Base: Polyurethane

Color: White, Black, Gray, Brown

Consistency: Paste

Curing System: Moisture Cure

Skin formation (20°C/ 65% R.H.): 30 min

Curing Rate (20°C/ 65% R.H.): 4mm /24h

Hardness (DIN 53505): 50 ± 5 Shore A

Specific gravity (DIN 53479): 1,25 ± 0,05 gr/ml

Temperature Resistance: -40°C to +90°C

Elastic Recovery (ISO 7389): >80%

Maximum allowed Distortion: 20%

Elasticity Modulus 100%: 0,80 N/mm²

Maximum Tension: 1,80 N/mm²

Elongation at Break: 450%

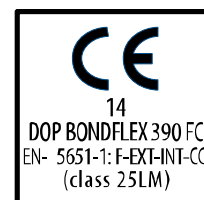
Application temperature: +5°C - +40°C

STORAGE

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

SHELF LIFE

18 months in unopened packaging in the above mentioned storage conditions.



PACKAGING

Cartridges 310ml

Sausages 600ml

PACKAGING	CODE	BARCODE
310ml white	04205	5204094042051
310ml gray	04208	5204094042082
310ml black	04206	5204094042068
310ml brown	4229	5204094042297
600ml white	04207	5204094042075
600ml gray	4212	5204094042129
600ml black	04209	5204094042044

HEALTH AND SAFETY INFORMATION

Consult recent Safety Data Sheet before application.

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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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