

TECHNICAL DATA SHEET

BONDAN FL04

Revision: 11.03.2021

Version: 1.001



PRODUCT DESCRIPTION

BONDAN FL04 is a solvent-based sealant for sealing flanges especially in pumps, gearboxes, motor flanges and pipelines. The sealant can be used as a substitute for solid seals and PTFE tape.

In the cured state the product forms a permanently elastic, aging-resistant film which is shock- and vibration-resistant. The high resistance to aging ensures the possibility of normal dismantling even after years. BONDAN FL04 has a high chemical resistance to many fuels, oils, gases, liquid gases and many other industrial media.

APPLICATION FIELD

BONDAN FL04 is especially designed for the following applications in the field of engines and gearboxes:

- Gear housing and gear cover
- Switch dome and cover
- Sealing flanges and chain case covers
- Oil pump housing and oil pump cover
- Water pump housing

TECHNICAL PROPERTIES

Appearance	viscous liquid
Color	grey
Viscosity at 25 °C	23000 – 45000 mPa·s, thixotropic
Density at 20 °C	≈ 1.25 g/cm ³
Max. gap	0.10 mm

CURING PROPERTIES

The curing rate depends especially on the material pairing, curing temperature, gap and surface.

Functional cure time	≈ 15 min
Full cure time	≈ 12 h
Skin formation time	see diagram (figure 1)

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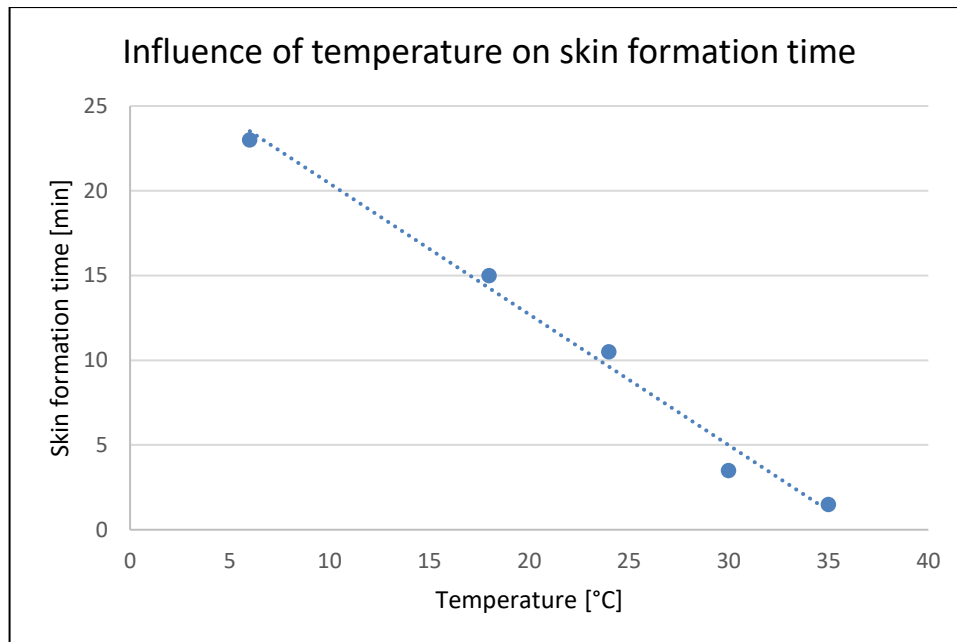


Figure 1: Test performed at 40 – 60 % relative humidity.

PROPERTIES IN THE CURED STATE

Elongation at break (DIN 53504)	450 – 650 %
Tensile strength (DIN 53504)	2 – 4 N/mm ²
Temperature range	-50 °C to +130 °C (+160 °C)

DIRECTIONS FOR USE

- Clean, dry and grease-free surfaces ensure the maximum strength.
- Clean soiled surfaces with BONDAN Cleaner or an appropriate solvent. We dis advise the use of cleaners containing acetone.
- Ensure sufficient flash-off time when cleaning parts.
- The product contains solvent. Please stir it well before usage. In case of an automated application of the sealant we recommend using an agitator.
- Join parts within the skin formation time once the sealant is applied.

STORAGE

- 12 months in unopened original packaging at rt
- Do not store in the refrigerator

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PRODUCT LABELLING

See safety data sheet.

PACKAGE UNITS

- For manual application 300 g cartridge

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