



# Den Braven

## Technical Data Sheet

### Zwaluw FP Silicone Sealant

Fire retardant silicone sealant



#### Product Description

Zwaluw FP Silicone Sealant is a fire retardant, elastic, neutrally curing silicone sealant. Zwaluw FP Silicone Sealant is fire resistant for up to 4 hours in linear (movement-) joints. Absorbs up to 25% of movement.

#### Benefits

- Tested according to EN 1366-4
- Up to 4 hours of fire resistance
- Can be applied in joints up to 30 mm wide
- In combination with Zwaluw FP PU Foam in joints up to 40 mm wide
- Excellent processing, does not slump
- Joint movement up to 25%
- UV, water and weather resistant
- Airtight sealing
- For external use
- Fire Behaviour: B1

#### Applications

Zwaluw FP Silicone Sealant was specifically developed for fire resistant sealing of connection and expansion joints in construction, is fire resistant in case of fire. Prevents the expansion of fire, smoke or toxic gases. Fire resistance tested according to EN 1366-4 up to 180 minutes in a gap of 30 mm wide. Combined with Zwaluw FP PU

Foam up to 180 minutes in a gap of 40mm wide. Ensure that you choose the correct fire resistance for your application by consulting the classification and test reports.

#### Directions Of Use

A joint with the correct dimensions is able to absorb movements between building materials. The joint depth should always be in the correct relationship of the joint width. A general rule is the ratio of joint depth to the width of the joint with a joint width up to 10 mm is 1:1, with a minimum of 5 mm in width and depth. For joints wider than 10 mm, the depth is the width divided by 3 plus 6 mm. For more information see the Technical Bulletin Joint Dimensions in the Knowledge Base on our website [www.denbraven.com](http://www.denbraven.com).

#### Additional information

100 % modulus	DIN 53504 S2	0,40 N/mm <sup>2</sup>
Application rate	@ Ø3 mm/6,3 bar	150 g/min
Application temperature		+5°C to +40°C
Base		Neutral oxime
Curing time	@ +23°C/50% RH	2 mm/24 hours
Density	ISO 1183-1	1,24 g/ml
Elongation at break	DIN 53504 S2	635%
Flow	ISO 7390	< 2 mm
Joint movement		25%
Shorea hardness	DIN 53505	20
Skin formation	DBTM 16	7-8 minutes @ +23°C/50% RH
Temperature resistance		-40°C to +120°C
Tensile strength	DIN 53504 S2	1,30 N/mm <sup>2</sup>

*These are typical values*

#### Limitations

- Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates



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#### Surface Preparations and Finishing

Application temperature: +5°C to +40°C (applies to environment and substrates). All substrates must be solid, clean, dry, and free of grease and dust. Clean substrates with Zwaluw Cleaner. Zwaluw FP® Silicone Sealant adheres perfectly without the use of primer to most non porous substrates. Porous substrates to be pre-treated with Zwaluw Primer Universal. Always test adhesion prior to application. Use Zwaluw Finisher to smoothen the joint.

#### Paintability

Zwaluw FP Silicone Sealant is not paintable. We recommend covering the edges of the joint with masking tape to prevent surfaces that need to be painted from being contaminated by silicone.

#### Cleaning

Uncured material and tools can be cleaned by using Zwaluw Cleaner. Cured material can only be removed mechanically. Hands can be cleaned with Zwaluw Wipes.

#### Colour(s)

- White

#### Packaging


- Cartridge

*For product specifications, please refer to the Product Detail Page*

#### Shelf Life

In unopened original packaging between +5°C and +25°C, shelf life is up to 12 months from production date, stored in a dry place.

#### Certifications

	EN 1366-4:2006+A1:2010 DIN 4102-1 Reaction to fire
	EN 15651-1: F-EXT-INT-CC 25LM EN 15651-2: G-CC 25LM

	A+ French VOC Regulation
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#### Health & Safety

Product Safety Data Sheet must be read and understood before use. These are available on request and via the Den Braven websites.

#### Warranty & Guarantee

Den Braven warrants that its product complies, within its shelf life, to its specification.

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