



Den Braven

Technical Data Sheet

Zwaluw FP Hybrid Sealant

Fire resistant sealant



Product Description

Zwaluw FP® Hybrid Sealant is a high quality professional 1-component fire resistant sealant based on hybrid technology, that provides up to 4 hours of fire resistance in linear joints.

Benefits

- Tested according to EN 1366-4
- Up to 4 hours of fire resistance
- Also suitable for wall/ceiling and wall/floor connections
- Suitable for joints up to 30 mm wide
- Certified for steel/wooden frames
- Certified for all metal-stud connections
- Excellent processing and easy toolability
- Joint movement up to 25%
- Paintable with most water based and synthetic paints
- Non corrosive towards metals
- Resistant to UV, water and weather

Applications

Zwaluw FP® Hybrid Sealant was specifically developed for fire resistant sealing of connection and expansion joints in construction, which in case of fire, should have a certain fire resistance and prevents spreading of fire, smoke and toxic gases. Also certified for horizontal joints, connection floor/ceiling with wall, wooden and steel

frames, stony substrates and all metal-stud applications. Fire resistance tested according to EN 1366-4 for up to 240 minutes in a joint of 30 mm wide. 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.

Additional information

100 % modulus	DIN 53504 S2	0,49 N/mm ²
Application rate	@ Ø2,5 mm/6,3 bar	115 g/min
Application temperature		+5°C to +40°C
Base		Hybrid
Curing time	@ +23°C/50% RH	Approximately 2-3 mm/24 hours
Density	ISO 1183-1	1,48 g/ml
Elongation at break	DIN 53504 S2	350%
Flow	ISO 7390	< 2 mm
Frost resistance during transportation		Up to -15°C
Joint movement		25%
Shorea hardness	DIN 53505	24
Skin formation	DBTM 10.00	10 minutes @ +23°C/50% RH
Temperature resistance		-40°C to +90°C
Tensile strength	DIN 53504 S2	0,96 N/mm ²

These are typical values



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16-04-2024
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Limitations

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

Surface Preparations and Finishing

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

Paintability

Zwaluw FP® Hybrid Sealant is paintable with water based and synthetic paints. We recommend testing compatibility with paint prior to application.

Cleaning

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

Colour(s)

- Concrete Grey

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 18 months from production date, stored in a dry place.

Certifications

	EN 1366-4:2006+A1:2010
	Emicode EC1 Plus

	EN 15651-1: F-EXT-INT-CC 20HM EN 15651-2: G-CC 25LM
	A+ French VOC Regulation

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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