



**Den Braven**



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## Technical Data Sheet

### Zwaluw Hybrifix®

High quality universal hybrid sealant and adhesive



#### Product Description

Zwaluw Hybrifix® is a high quality professional universal sealant and adhesive based on hybrid technology, which cures under influence of humidity to form a durable elastic rubber.

#### Benefits

- Universal bonding and sealing for interior and exterior use
- Permanently elastic
- Free of isocyanates, solvents and silicones
- No shrinkage and bubble free
- Resistant to UV, moisture, mould and weather
- Adheres perfectly without primer on most, even damp, surfaces
- Neutral curing, almost odourless
- Non corrosive towards metals
- High mechanical resistance, end strength and E-modulus
- Absorbs acoustic and mechanical vibrations

#### Applications

Zwaluw Hybrifix® was specifically developed as a universal sealant for durable elastic sealing of connection joints and joints in pedestrian walkways in building and industry. For expansion joints Den Braven recommends Zwaluw Hybriseal Façade or Zwaluw Hybriseal 2PS. Universal construction adhesive for bonding many building materials such as: stone, concrete, glass, plasterboard, PU,

PVC, hard plastics, enamel, ceramic, copper, lead, zinc, aluminium, metals, alloys, stainless steel, HPL and cement fibre panels (1), wood and paint systems. For sealing and bonding in cold storage cells and kitchens. Remark (1) For bonding HPL and cement fibre panels see Technical Bulletins in the Knowledge Base on our website [www.denbraven.com](http://www.denbraven.com).

#### Directions Of Use

Apply adhesive in a 'ventilating' way in vertical stripes with 10 - 20cm between stripes. Do not apply adhesive in dots! The use of 3mm double sided tape is recommended to support the adhesion during the first 24 hours and to make sure that the thickness of the adhesive is correct. For further questions please contact our technical service.

#### Additional information

100 % modulus	DIN 53504 S2	1,53 N/mm <sup>2</sup>
Application rate	@ Ø2,5 mm/6,3 bar	150 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	1,56 g/ml
Elongation at break	DIN 53504 S2	400%
Flow	ISO 7390	< 2 mm
Frost resistance during transportation		Up to - 15° C
Joint movement		25%
Shorea hardness	DIN 53505	52
Skin formation	DBTM 10.00	10 minutes @ + 23° C/50% RH
Temperature resistance		- 40° C to + 90° C
Tensile strength	DIN 53504 S2	2,20 N/mm <sup>2</sup>

*These values are typical properties and may vary +/-3%*

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### Limitations

- Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates
- Not suitable for natural stone and mirrors
- Not suitable in combination with chlorides (pools)

### 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 Hybrifix® adheres perfectly without the use of a primer to most non porous substrates. Pre-treat porous substrates with Zwaluw Primer B1. Always test adhesion prior to application. Use Zwaluw Finisher to smooth the joint.

### Paintability

Zwaluw Hybrifix® is perfectly paintable with water based and most 2 component paints. Synthetic paints can dry slower. We recommend testing compatibility with paint prior to application. If Zwaluw Hybrifix® is being painted over (not necessary), we recommend slightly sanding the sealant and the junction surfaces prior to use with Scotch-Brite. For the best results, we recommend painting a few days after 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)

- Brown
- Grey
- Black
- White

### Packaging




- Cartridge

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

### Shelf Life

Store between + 5°C and + 25°C and in shaded conditions. Shelf life is 18 months (exception for pressure pack shelf life is 12 months) when stored as recommended in original unopened packaging.

### Certifications

	Emission Certificate M1 A+ (Eurofins ISO 16000) LEED M1
	Emicode EC1 Plus
	EN 15651-1: F-EXT-INT-CC 25HM EN 15651-3: S XS3 EN 15651-4: PW-EXT-INT-CC 25HM
	ISEGA

### 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.

### Disclaimer

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