



# Den Braven

## Technical Data Sheet

### Zwaluw Hybrifix® 302

Plasticizer-free universal hybrid sealant and adhesive for naturale stone



#### Product Description

Zwaluw Hybrifix® 302 Hybrid Adhesive & Natural Stone 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

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

#### Applications

Zwaluw Hybrifix® 302 Hybrid Adhesive & Natural Stone was specifically developed as a universal plasticizer-free sealant and adhesive for connection joints in building and industry. Zwaluw Hybrifix® 302 Hybrid Adhesive & Natural Stone is also used as a

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. Suitable for mechanically loaded expansion joints and bridging joint systems.

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

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).

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#### Additional information

100 % modulus	DIN 53504 S2	1,60 N/mm <sup>2</sup>
Application rate	@ Ø2,5 mm/6,3 bar	100-250 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	1,42 g/ml
Elongation at break	DIN 53504 S2	300%
Flow	ISO 7390	< 2 mm
Frost resistance during transportation		Up to -15°C
Joint movement		20%
Shorea hardness	DIN 53505	60
Skin formation	DBTM 16.00	10 minutes @ +23°C/50% RH
Temperature resistance		-40°C to +120°C
Tensile strength	DIN 53504 S2	2,60 N/mm <sup>2</sup>

*These are typical values*

#### Limitations

- Not suitable for continuous exposure to water
- Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates
- 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® 302 Hybrid Adhesive & Natural Stone adheres perfectly without the use of a primer to most non porous substrates. Pre-treat porous substrates with Zwaluw Universal Primer. Always test adhesion prior to application. Use Zwaluw Finisher to smooth the joint.

#### Paintability

Zwaluw Hybrifix® 302 Hybrid Adhesive & Natural Stone is perfectly paintable with water based and most 2 component paints. Synthetic paints can dry slower. We recommended testing compatibility with paint prior to application. If Zwaluw Hybrifix® 302 Hybrid Adhesive & Natural Stone 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 to paint within 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)

- Black
- Grey
- White

#### Packaging

- Cartridge
- Sausage

*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 when stored as recommended in original unopened packaging.

#### Certifications

CE	EN 15651-1: F-EXT-INT-CC 20HM
	EN 15651-3: S XS3



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	ISEGA
	Emicode EC1 Plus
	M1
	A+ French VOC Regulation

Health & Safety

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

Warranty & Guarantee

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

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