



## Technical Data Sheet

### Zwaluw Polyflex® 422

High modulus polyurethane sealant



#### Product Description

Zwaluw Polyflex® 422 is a professional high quality sealant based on polyurethane technology which cures by reacting to moisture to form a durable elastic rubber.

#### Benefits

- Excellent adhesion without primer on most, even damp substrates
- High mechanical performances
- Permanently elastic
- Paintable with water based paints

#### Applications

Zwaluw Polyflex® 422 was developed as a sealant for connection and expansion joints in concrete, wood, metal, aluminium and PVC frames and masonry.

#### 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 10mm is 1:1, with a minimum of 5mm in width and depth. For joints wider than 10mm, the depth is the width divided by 3 plus 6mm. 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	ISO 8339	± 0,20 N/mm2
Application temperature		+ 5° C to + 40° C
Base		Polyurethane
Curing time	@23° C/50% RH	3mm/24 hours
Density	ISO 1183-1	± 1,23 g/ml
Elongation at break	ISO 8339	± 700%
Flow	ISO 7390	< 3mm
Frost resistance during transportation		Up to - 15° C
Joint movement		± 25%
Shearing strength	ISO 4587	± 0,4 N/mm2
Shorea hardness	ISO 868	± 20
Shrinkage	ISO 10563	<10%
Skin formation	@ + 23° C/50% RH	120 minutes
Temperature resistance		- 30° C to + 70° C
Tensile strength	ISO 8339	± 0,45 N/mm2

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

#### Limitations

- Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates
- Not suitable in combination with chlorides (pools)
- Slight yellowing may occur when white sealant is exposed to ultraviolet rays

#### 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 from grease and dust. Clean substrates with Zwaluw Cleaner. Zwaluw Polyflex® 422 adheres perfectly without the use of primer to most non porous substrates. Porous substrates to be pre-treated



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with Zwaluw Primer B1. Always test adhesion prior to application. Use Zwaluw Finisher to smooth the joint.

#### Paintability

Zwaluw Polyflex® 422 is perfectly paintable with water based and most 2 component paints. Synthetic paints can dry slower. We recommend to testing compatibility with paint prior to application. If Zwaluw Polyflex® 422 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)

- Grey

#### Packaging


- Cartridge

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

#### Shelf Life

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

#### Certifications

	A+ (Eurofins ISO 16000) ASTM C-920 SNJF F25E
	EN 15651-1: F-EXT-INT-CC 25HM

#### 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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