



# Den Braven

## 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 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   | 0,4 N/mm <sup>2</sup>   |
| Application rate                       | Ø4 mm/3 bar    | 150                     |
| 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       | ± 900%                  |
| Flow                                   | ISO 7390       | < 3mm                   |
| Frost resistance during transportation |                | Up to -15°C             |
| Joint movement                         |                | 25%                     |
| Shearing strength                      | ISO 4587       | ± 0,4 N/mm <sup>2</sup> |
| Shorea hardness                        | DIN 53505      | 20                      |
| Shrinkage                              | ISO 10563      | <10%                    |
| Skin formation                         | @ +23°C/50% RH | 120 minutes             |
| Temperature resistance                 |                | -30°C to +70°C          |
| Tensile strength                       | DIN 53504      | 1,3 N/mm <sup>2</sup>   |

*These are typical values*

#### Limitations

- Not suitable in combination with chlorides (pools)
- Slight yellowing may occur when white sealant is exposed to ultraviolet rays
- 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, 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 with Zwaluw



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Primer Universal. 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

|   |                               |
|---|-------------------------------|
|  | EN 15651-1: F-EXT-INT-CC 25HM |
|  | SNJF Façade 25E               |

#### 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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