



Den Braven

# 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.

## KEY 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.

## DIRECTION FOR 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).

## TECHNICAL SPECIFICATIONS

<b>100% Modulus</b>	ISO 8339	0,2 N/mm <sup>2</sup>
<b>Application Temperature</b>		+5°C to +40°C
<b>Base</b>		Polyurethane
<b>Application Rate</b>	Ø4 mm/3 bar	150 g/min
<b>Curing Time</b>	@23°C/50% RH	3mm/24 hours
<b>Density</b>	ISO 1183-1	± 1,23 g/ml
<b>Elongation At Break</b>	ISO 8339	± 900%
<b>Flow</b>	ISO 7390	< 3mm
<b>Frost Resistance</b>		Up to -15°C
<b>Joint Movement</b>	ISO 11600	25%
<b>Shore A Hardness</b>	DIN 53505	20
<b>Skin Formation</b>	@ +23°C/50% RH	120 minutes
<b>Temperature Resistance</b>		-30°C to +70°C
<b>Tensile Strength</b>	ISO 8339	± 0,45 N/mm <sup>2</sup>
<b>Shrinkage</b>		<10%
<b>Shear Strength</b>		± 0,4 N/mm <sup>2</sup> (ISO 4587)

These are typical values

## 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 with Zwaluw 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.

## PACKAGING DESCRIPTION

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

## COLOR

• Grey

## 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 F25E



## 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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