

# Polyflex<sup>®</sup> 442

High modulus polyurethane sealant



## **PRODUCT DESCRIPTION**

Zwaluw Polyflex® 442 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 substrates
- High mechanical performances
- Permanently elastic - Paintable with water based paints

#### APPLICATIONS

Zwaluw Polyflex® 442 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 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 devided by 3 plus 6 mm. For more information see the Technical Bulletin Joint Dimensions in the Knowledge Base on our website www.denbraven.com.

## **TECHNICAL SPECIFICATIONS**

100% Modulus	ISO 8339	± 0,4 N/mm²
Application Temperature		+5°C to +40°C
Base		Polyurethane
Application Rate	Ø4 mm/3 bar	100 - 150
Curing Time	@ +23°C/50% RH	3mm/24 hours
Density	ISO 1183-1	± 1,20 - 1,25 g/ml
Elongation At Break	ISO 8339	> 600%
Flow	ISO 7390	< 3mm
Frost Resistance		Up to -15°C
Joint Movement	ISO 11600	25%
Shore A Hardness	DIN 53505	30 - 35
Skin Formation	@ +23°C/50% RH	90 min
Temperature Resistance		-30°C to +80°C
Tensile Strength	ISO 8339	± 0,6 N/mm²
Shrinkage		<10%
Shearing Strength		± 1,1 N/mm²

These are typical values

### LIMITATIONS

Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and - 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® 442 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® 442 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 Polyflex® 442 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

#### COLOUR

• Black • Brown • White • 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

- A+ French VOC Regulation

- EN 15651-1: F-EXT-INT-CC 25HM
- EN 15651-4: PW-EXT-INT-CC 25HM
- SNJF Façade 25E
- ASTM C920 C25



#### **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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