

## Polyflex 422

## WATER PROOFING

### Description:

Zwaluw POLYFLEX® 422 is a professional high quality one component moisture curing low modulus polyurethane sealant.

### Applications:

- ▶ Interior and exterior dilatation joint.
- ▶ Expansion and sealing joints in almost all building substrates.
- ▶ Joints between wooden, metal, aluminium or PVC frames and masonry.

### Advantages:

- ▶ Excellent adhesion to most substrates: wood, brick, concrete, natural stone, floor tile, ceramic, steel and stainless steel, aluminum, zinc, copper, synthetic materials.
- ▶ Low modulus sealant with permanent elasticity.
- ▶ Water and sea-water resistant, resistant to grease, to household detergent and to weather changes.
- ▶ Paintable (see the section Precautions of use - Recommendations).

### Implementation:

#### Surface preparation:

- ▶ All surfaces must be clean, dry and free from dust, grease and other loose material.

#### Application:

- ▶ Apply Zwaluw POLYFLEX® 422 with a professional caulking gun.

#### Cleaning:

- ▶ Uncured materials and tools: ZWALUW® Wipes.
- ▶ Cured material: mechanically.
- ▶ Hands: ZWALUW® Wipes.

### Precautions of use - Recommendations :

- ▶ Before using the product, refer to Safety Data Sheet (MSDS). MSDS and Declaration of Performance (DoP) available on request on our website.
- ▶ Wear eyes and clothes protection.
- ▶ Before use, we always recommend preliminary tests.
- ▶ A well-designed joint is a joint with a sufficient width so it would be able to take and process the movement of the adjacent building elements. The joint depth should always be in the correct relationship of the joint width. As a general rule: width of the joint / 2, minimum width equal or over 5 mm.

#### Paintability:

- ▶ Zwaluw Polyflex® 422 is paintable after full drying of sealant with water based paints.
- ▶ It must be understood that sealants are elastomeric in nature, enabling them to extend and compress within a construction joint. Most paints are designed to be applied to hard, non-moving surfaces and do not match the elastomeric properties of sealants. Because sealants are soft and will extend and compress, if the paint film does not move in an identical manner to the sealant, the paint may crack and peel.
- ▶ Preliminary tests are always recommended for paint compatibility.



### Technical info:

Type	Polyurethane sealant
Shore-A hardness	20 Shore A (ISO 868)
E-modulus at 100%	Around 0,20 N/mm (ISO 8339)
Density	Around 1,20 g/cm <sup>3</sup>
Sagging	< 3 mm (ISO 7390)
Elongation at break	Around 700% (ISO 8339)
Elastic recovery	> 70 % (ISO 7389)
Shrinkage	< 10% (ISO 10563)
Shear strength	0,4 N/mm <sup>2</sup> (ISO 4587)
Tensile strength	0,45 N/mm <sup>2</sup> (ISO 8339)
Joint movement capacity	25 %
Temperature resistance	-30°C to +70°C
Application temperatures	+5°C to +40°C
Skin forming time	120 min (23°C / 50% H.R.)
Curing speed	Around 3 mm / 24h (23°C / 50% H.R.)

### Standards colors\*

### Packaging

White	25 cartridges 300 ml
	25 saussages 400 ml
	12 saussages 600 ml
Concrete grey	25 cartridges 300 ml
	25 saussages 400 ml
	12 saussages 600 ml
Black	25 cartridges 300 ml
	25 saussages 400 ml
	12 saussages 600 ml
Brown	25 saussages 400 ml
	12 saussages 600 ml
Sand stone	12 saussages 600 ml

Other colors: on request



**Limitations:**

Do not use for:

- ▶ Applications on PMMA, PE, PP, PC, PTFE, neoprene and bituminous materials.
- ▶ Constant water immersion or contact with chlorides (aquaria, pools).
- ▶ Glazing.

**Storage and shelf life:**

- ▶ Storage between +5 °C and +25 °C.
- ▶ Shelf life: 12 months when stored as recommended in original unopened packaging.

**Labels - Norms:**

- ▶ SNJF Façade 25E
- ▶ ISO 11600 F25 HM
- ▶ EN 15651-1 : F-EXT-INT-CC 25 HM
- ▶ ASTM C920

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V. 1.2 - Oct. 15th 2015.



\* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).



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