Den Braven

Polyflex® 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, even damp 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	(DIN 53504 S2)	> 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	DIN 53504	± 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 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® 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.

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.

BOSTIK CERTIFICATIONS

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.

"Arkema Middle East DMCC
Unit 1108 JBC 3 Tower, Cluster Y, Jumeirah
Lakes Towers, P.O. Box 336393 Dubai
T +971 48751704 | E
bostik.mena-info@bostik.com"