



Den Braven



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Knowledge

Technical Data Sheet

Zwaluw® Spectrumseal®-Universal Neutral silicone available in many colors.



Product Description

Zwaluw Spectrum Seal®-Universal is a plasticizer free neutral silicone sealant which can be ordered in a lot of colors from 12 cartridges, and cures under influence of humidity to form a durable elastic rubber.

Benefits

- No staining or discolouring on natural stone.
- Perfect bonding without primer on most substrates.
- Sanitary formulation.
- Wide range of colors.
- Neutral curing, almost odourless.

Applications

Zwaluw Spectrum Seal®-Universal is specially developed for durable elastic sealing of natural stone and expansion joints in concrete and brickwork, connections joints, curtain wall constructions, glazingsystems, kitchens, bathrooms, showers and industrial applications.

#Remark

Compatibility with edge seals of insulation glass cannot be guaranteed, as the compositions of sealant for the edges of insulation glass can be different or changed by the producer of insulation glass. Advices concerning the compatibility of glazing sealants to the edge seals of insulation glass are based on experience and therefore not guaranteed.

Directions of Use

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. A general rule is the ratio of joint depth to the width of the joint with a joint width till 10 mm is 1:1, with a minimum of 5 mm in width and depth. For joints wider than 10 mm, the ratio is 1:2 with a minimum depth of at least 10 mm and a maximum of 15 mm. For further question please contact our technical service.

Additional information

100% Modulus	N/mm2	0,40 MPA
Application Rate		130 g/min
Application Temperature		+5°C till +40°C
Base		Neutrale alcoxy
Curing Time	@23°C/50% RH	2mm/day
Density		1,01 g/ml
Elongation at Break		530%
Flow	ISO 7390	< 2 mm
Frost Resistance during transportation		Till -15°C
Joint Movement		20%
Shore-A hardness	DIN 53505	15 Shore A
Skin Formation	@23°C/55% RH	15 min
Temperature Resistance		-40°C till +120°C
Tensile Strength	N/mm2	0,96 MPa

Limitations

- Discoloration can occur in dark places and by contact with chemicals.
- Not suitable for PE, PP, PC, PMMA, PTFE, neoprene and bituminous substrates.

Surface Preparations and Finishing

Application temperature: +5°C to +40°C (environment and substrate). Surfaces must be dry, clean and solid. Clean surfaces with Zwaluw Cleaner. Zwaluw Spectrum Seal®-Universal adheres perfectly without the use of a primer to most non porous substrates. Strong porous



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surfaces to be pre-treated with Zwaluw Primer B1. Always test adhesion prior to application. Use Zwaluw Finisher to smooth the joint.

Paintability

Zwaluw Spectrum Seal®-Universal is not paintable. It is recommended to cover the edges of the joint with masking tape in order to prevent that surfaces which remain to be painted will be contaminated with silicone.

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

- Cartridge 310 ml

Shelf Life

In unopened original packaging between +5°C and +25°C, shelflife till 9 months after production date, stored in a dry place.

Certifications

EN 15651-1: F-EXT-INT-CC 20LM

EN 15651-2: G-CC

EN 15651-3: S XS2

Health & Safety

Product Health and Safety Data Sheet must be read and understood before use. These are available on request and via the Den Braven websites.

Warranty & Guarantee

Den Braven warrants that its product complies, within its shelf life, to its specification.

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