Product Description

OB1 Diamond Universal Sealant Crystal Clear is a high quality professional phthalate, tin and solvent free crystal clear universal sealant and adhesive, hybrid based and it cures under influence of humidity to form a durable elastic rubber.

Benefits

- Crystal clear
- High UV resistance
- Multi-functional sealant and adhesive
- Phthalate-free, tin-free, solvent free
- Suitable for internal and external use*

Applications

Specifically developed as a crystal clear universal sealant and adhesive for interior and exterior use*.Can be used for all type of non-structural sealing applications where a minimum of joint movement is expected. Can also be used to seal and bond a wide variety of common building materials.

* OB1 Diamond Universal Sealant Crystal Clear has a high resistance against UV, however we recommend when using this product outside to avoid direct UV exposure.

Directions Of Use

Applied as a sealant in situations where a maximum joint movement is expected of 20%. 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 till 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. We recommend always to use a correct backer rod to ensure a correct joint dimension and to avoid a three-point-contact.

Applied as an adhesive, apply in a 'ventilating' way in vertical stripes with 10-20 cm distance between stripes. Do not apply the adhesive in dots! For further questions please contact our technical department.

Technical Specifications

100 % modulus	ISO 37	0,50 N/mm²
Application rate	@ Ø4 mm/3 bar	100-150 g/min
Application temperature		+5°C to +40°C
Base		STPE
Curing time	@ +23°C/50% RH	3 mm/24 hours
Density	ISO 1183-1	1,03 g/ml
Elongation at break	ISO 37	> 400%
Flow	ISO 7390	< 3mm
Frost resistance during transportation		Up to -15°C
Joint movement		20%
Shorea hardness	DIN 53505	20-25
Skin formation	@ +23°C/50% RH	30 minutes
Temperature resistance		-30°C to +70°C
Tensile strength	ISO 37	2,40 N/mm2

These are typical values

Limitations

- Not suitable for PE, PP, PTFE, soft plastics, neoprene and bituminous substrates
- Not suitable for glazing joints, natural stone and mirrors
- Not suitable for natural stone and chlorides (pools)
- Not suitable for continuous water load
- With prolonged exposure to UV radiation, products can discolour and become less UV stable

Surface Preparations and Finishing

Application temperature +5°C to +40°C (applies to environment and substrates). All substrates must be solid, clean and free of grease and dust. Clean substrates with Cleaner. Adheres perfectly without the use of a primer to most non

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porous substrates. Pre-treat porous substrates with a universal Primer. Always test adhesion prior to application. Use Finisher to smooth the joint.

Paintability

OB1 Diamond Universal Sealant Crystal Clear is paintable with water based and most 2 component paints. Synthetic paints can dry slower. We recommend testing compatibility with paint prior to application. If painting 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 Cleaner. Cured material can only be mechanically removed. Hands can be cleaned with Wipes.

Shelf Life

Store between +5°C and +25°C and in shaded conditions. Shelf life is 15 months when stored as recommended in original unopened packaging.

Certifications

CE	EN 15651-1: F-EXT-INT-CC 20LM
	EMICODE EC1 Plus – very low emission ASTM C1248 non-staining
	ISEGA
	A+ French VOC Regulation

Health & Safety

Product Safety Data Sheet must be read and understood before use. These are available on request and via our website ob1original.com

Warranty & Guarantee

OB1 warrants that its product complies, within its shelf life, to its specification.

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