Hybrid crystal-clear assembly adhesive

greenteQ Hybrid assembly adhesive is a high-quality, permanently elastic MS polymer-based adhesive and sealant and is crystal-clear.

Product description:

High-quality, permanently elastic adhesive and sealant based on a hybrid polymer. For indoor and outdoor bonding applications. Transparent and elastic bonding in common construction applications. Invisible bonding of glass and other transparent materials in indoor applications.

Product properties:

- Excellent adhesion to most surfaces, including when slightly moist.
- Very good mechanical properties.
- Resistant to mould, contains ZnP (biocide with a fungicidal effect).
- Easy to dispense, even at low temperatures.
- Free of isocyanates, solvents, halogens and acids.
- Can be painted over with water-based coating systems.
- Permanently elastic after curing.

Product image and VBH item numbers

	VBH item number
Colour designation	**290 ml**
Crystal-clear	217 274 8859

Technical data:

Basis	SMX hybrid polymer
Consistency	Stable paste
Curing	Moisture-curing
Skin formation* (23°C / 50% RH)	Approx. 10 minutes
Curing time* (23°C / 50% RH)	2–3 mm / 24 hrs
Hardness**	38 ± 5 Shore A
Density**	1.04 g/ml
Recovery capacity (ISO 7389)**	> 75%

Max. permissible total deformation (ISO 11600)	± 20%
Tensile strength (ISO 37)**	2.4 N/mm²
Modulus of elasticity 100% (ISO 37)**	0.8 N/mm²
Elongation at break (ISO 37)**	300%
Temperature resistance**	-40°C – +90°C
Processing temperature	+5°C – +35°C
Carton contents: per cartridge/tube	12

* These values may vary depending on environmental factors such as temperature, humidity or the type of substrate.

** These figures refer to a fully cured product.

Storage stability

Twelve months in unopened packaging in a cool, dry storage location at temperatures between +5°C and +25°C.

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Resistance to chemicals

High resistance to (salt)water, aliphatic solvents, hydrocarbons, ketones, esters, alcohols, dilute mineral acids and alkaline solutions.
Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates:	All common construction substrates, glass, treated timber, PVC, plastics, metals, stone, concrete etc.
Condition:	Capable of bearing a load, clean, dry or slightly moist, free of dust and grease.
Surface preparation:	Porous surfaces for applications under a water load should be primed with greenteQ primer. Pre-treat non-porous surfaces with greenteQ primer or cleaner as appropriate.

Release agents, processing aids and other means of protection (e.g. protective films) are used very frequently in the production of plastics. These must be removed prior to bonding or sealing.

NOTE: bonding of plastics such as PMMA (e.g. Plexiglas®), polycarbonate (e.g. Makrolon® or Lexan®) that are under load may lead to the formation of stress cracks or crazing in these substrates. greenteQ Hybrid crystal-clear assembly adhesive is not recommended for these applications.
Not suitable for PE, PP, PTFE (e.g. Teflon®), bituminous substrates, copper or materials containing copper such as bronze and brass. It is advisable to carry out an adhesion and compatibility test on every substrate first.

Joint dimensions

Minimum width for bonding:	1 mm	Minimum width for joints:	5 mm
Maximum width for bonding:	3 mm	Maximum width for joints:	30 mm
		Minimum depth:	5 mm

Processing

Processing:	Using a manual spray gun or compressed air gun.
Cleaning:	Cured greenteQ Hybrid crystal-clear assembly adhesive can be removed by mechanical means only.
Smoothing:	With a soapy solution or greenteQ Smoothing Aid before skin formation.
Repair option:	With the same material.

Safety recommendations

Observe the usual industrial hygiene regulations. Additional information can be found on the packaging and on the safety data sheet.

Comments

- greenteQ Hybrid crystal-clear assembly adhesive can be painted over with water-based paints. However, it is strongly recommended that you carry out a compatibility test prior to application due to the variety of paints and varnishes available.
- The drying time of paints based on alkyd resin may increase.
- greenteQ Hybrid crystal-clear assembly adhesive can be used on a variety of substrates. Because certain substrates such as plastics, polycarbonate etc. may differ depending on their manufacturer, it is recommended that you carry out a compatibility test first.
- Release agents, processing aids and other means of protection (e.g. protective films) are used very frequently in the production of plastics. These must be removed prior to bonding. The use of an activator is recommended for optimal adhesion.
- greenteQ Hybrid crystal-clear assembly adhesive is not suitable for expansion joints.
- Do not use if a permanent water load is possible.
- greenteQ Hybrid crystal-clear assembly adhesive demonstrates good UV stability, but can also become discoloured in extreme conditions or after prolonged exposure to UV radiation.
- greenteQ Hybrid crystal-clear assembly adhesive cannot be used as a sealant for window glazing.
- Not suitable for bonding fish tanks.
- greenteQ Hybrid crystal-clear assembly adhesive is not suitable for use on natural stone.
- Despite the product being equipped with fungicide, the joint should be cleaned regularly. Heavy soiling, deposits or soap residues can lead to increased fungus development
- Discolouration may occur due to chemicals, high temperatures or UV radiation. Changes in colour have no effect on the technical properties of the product.
- Avoid contact with bitumen, tar or other materials that release plasticisers, such as EPDM, neoprene or butyl, as this may lead to discolouration and loss of retaining force.
- When you are using various reactive joint sealing compounds, the first joint sealing compound must be fully cured before the next one is applied.

Standards and approvals

Tested and in compliance with FDA Code of Regulations CFR 21 Sec. 177.2600 (e) for repeated use in contact with aqueous food.

Environmental clauses

LEED regulations: greenteQ Hybrid crystal-clear assembly adhesive fulfils the specifications of LEED. Low-emission substances: adhesives and sealants. SCAQMD Rule 1168. Meets the requirements of USGBC LEED 2009 Credit 4.1: Low-emitting materials & VOC content of adhesives and sealants.

Note

The information in this technical data sheet is based on tests, monitoring and empirical values. It is of a general nature and does not constitute grounds for liability. It is responsibility of users to determine through their own tests whether the substance is suitable for the intended use.

PRODUCT DATA SHEET