Hybrid white assembly adhesive

greenteQ Hybrid white assembly adhesive is a high-quality, fast-curing, permanently elastic adhesive and sealant based on a hybrid polymer with very high initial adhesion.

Product description:

High-quality, neutral, elastic, single-component adhesive based on a hybrid polymer. Bonding in structural and civil engineering. Elastic bonding of sheets, profiles and other components to most common substrates (timber, MDF, particle boards etc.).

Product properties:

- High initial adhesion, less support required.
- Fast curing.
- Easy to dispense.
- High shear strength once completely cured (no primer).
- Remains elastic after curing and is very durable.
- Odourless.
- Can be painted over with water-based coating systems.
- High weather and UV resistance.
- Does not contain any isocyanates and silicones.
- Good adhesion to slightly moist substrates.

Product image and VBH item numbers

Overview of VBH item numbers		
Colour designation	**290 ml**	**600 ml**
White	217 274 8858	217 274 8857

Technical data:

Basis	MS polymer
Consistency	Stable paste
Skin formation* (23°C / 50% RH)	Approx. 5 minutes
Curing time* (23°C / 50% RH)	3 mm / 24 hrs
Hardness**	50 ± 5 Shore A
Density**	1.47 g/ml
Recovery capacity (ISO 7389)**	> 75%
Max. permissible total deformation (ISO 11600)	± 20%

Tensile strength (ISO 37)**	3.00 N/mm²
Modulus of elasticity 100% (ISO 37)**	1.60 N/mm²
Elongation at break (ISO 37)**	500%
Temperature resistance**	-40°C to +90°C
Coverage* (with an adhesive bead of approx. 5 mm)	Approx. 15 linear metres
Processing temperature	+5°C to +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.

PRODUCT DATA SHEET

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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, treated timber, PVC, plastics etc.
Condition:	Capable of bearing a load, clean, dry, 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 (see Technical Data Sheet).

greenteQ Hybrid white assembly adhesive has been tested on the following metal surfaces: AlCuMg1, AlMg3, AlMgSi1, stainless steel, galvanised steel, ST1403 steel, hot-dip galvanised steel. greenteQ Hybrid white assembly adhesive also demonstrates good adhesion to plastics: polystyrene, polycarbonate (Makrolon®), PVC, polyamide, glass-fibre-reinforced epoxy resin, polyester. 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. The use of a surface activator is recommended for optimal adhesion. Performance of an adhesion test is recommended for all surfaces before application.

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 white 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

The optimal adhesive thickness for this medium is at least 2 mm to enable the elastic properties to take full effect.

Processing

Processing:	Using a manual spray gun or compressed air gun.
Cleaning:	Immediately after use (before curing) with cleaning solvent.
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 white 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 white 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 a surface activator is recommended for optimal adhesion.
- greenteQ Hybrid white assembly adhesive cannot be used as a sealant for window glazing.
- greenteQ Hybrid white assembly adhesive can be used to bond natural stone, but is not suitable as a joint sealant on this surface. The assembly adhesive can therefore be used only on the underside of natural stone tiles.
- During processing, ensure that the surfaces of materials are not soiled.
- When you are using various reactive joint sealing compounds, the first joint sealing compound must be fully cured before the next one is applied.
- Not suitable for bonding fish tanks.
- Do not use if a permanent water load is possible.
- 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 adhesion.

Environmental clauses

LEED regulations: greenteQ white Hybrid 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