

PolyTech CRYSTAL

Adhesive & Sealant



Technical Data Sheet

Description

PolyTech CRYSTAL is a transparent, fast-curing adhesive/sealant based on an advanced silane polymer formulation.

Colour

Crystal clear

Packaging

290ml cartridges (box quantity 12)

Surface Preparation

- Always carry out a test to confirm compatibility prior to use.
- Surfaces to be bonded must be clean, dry, dust-proof and degreased.
- Roughen non-porous surfaces.
- On materials such as glass, aluminum, ceramics, lacquered wood, PVC, epoxy and polyester no primer is required. For other materials, please contact VJT Technical.

Application

- Cut off end of thread with a sharp knife, avoiding damage to the thread. Trim the nozzle to the required diameter.
- Ensure good contact between the joint surfaces before applying adhesive.
- Apply a bead of adhesive to one or both surfaces.
- For larger bond areas, spread the adhesive immediately using a notched spreader.
- Bring the two components together immediately and hold together for at least 5 minutes until sufficient bond strength has developed. Sufficient working strength will normally develop after 5-10 minutes.

Cleaning

Remove excess adhesive immediately with a suitable high strength cleaner. Ensure surface is solvent resistant before cleaning. Cured adhesive can only be removed mechanically.

Notes

Not suitable for bonding polyethylene, polypropylene, Teflon® or nylon. May cause discolouration along edges when used on stone.

For external applications the installation process needs to be dry until fully cured. Not recommended where regular wet conditions are present.

Health & Safety Precautions

Safety data sheet must be read and understood before use



Usage/Purpose

PolyTech CRYSTAL cures rapidly to provide a flexible, crystal clear seal. The transparent properties of PolyTech CRYSTAL make it ideal for use in the sealing/bonding of glass elements in a wide range of interior/exterior applications where a transparent bond is required. Typical uses include bonding glass panes to aluminium or anodised frames (construction of display cases, retail units, glass lifts etc). This adhesive is compatible with metals and most materials used in construction work.

Key Benefits

- A crystal clear polymer sealant ideal for transparent bonding
- Advanced silane polymer formulation - a green alternative to traditional PU adhesives
- Does not contain solvents or isocyanates - very low odour
- Excellent adhesion to a wide range of materials including metals, glass, PVC and concrete
- Rapid skinning - tack free in approx. 10 minutes.

Technical Information

Property	Test Method	Results
specific gravity	DIN 52451-A	1.04
consistency	EN 27390, 20mm profile	0mm, non-sagging
shore A hardness		28
shrinkage	DIN 52451	2.70%
modulus at 100%	EN 28340	0.6 N/mm ²
tensile strength	DIN 53504 S2	2.0 N/mm ²
elastic recovery	EN 27389-B	> 50%
permitted total deformation		20%
cure time (at 20°C)		approx. 3.5mm/day
skinning time	at 23°C and 50% R.H.	approx. 10 mins
application temperature		+5°C to +40°C
service temperature		-40°C to +80°C
storage		store in dry shaded conditions between +5°C and +25°C
shelf life		12 months when stored as recommended in original, unopened packaging

Coverage

Width x Depth (mm)	Linear meters per 290 ml cartridge
5 x 5	11.6
8 x 6	6.0
10 x 8	3.6
15 x 10	1.9
20 x 12	1.2
25 x 15	0.8
30 x 15	0.6

All product specifications and data are subject to change without notice.

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