

# CRYSTAL BOND



## Crystalline hybrid structural sealant-adhesive

### DESCRIPTION:

CRYSTAL BOND is a singlecomponent adhesive sealant based on hybrid polymer with silanic termination that hardens reacting with the humidity of the air. Thanks to its characteristics of exceptional adhesivity can be employed for underwater repairs. Great resistance to weathering and aging. Ideal for bonding and sealing of plastic materials (except PE and PTFE) glass, mirrors, marble, porcelain, wood, aluminum, painted aluminum, steel, stainless steel, iron, etc.

### APPLICATION FIELDS:

- Internal and external Sealing
- Sealing on plastics material (GPR, rigid PVC)
- Sealing of cracks and joints
- Sealing for pipelines, metal constructions
- Sealing of motor vehicles, special vehicles, metals and equipment, shipbuilding®
- Underwater seals

### VANTAGES:

- Free of isocyanates and solvents
- Permanent elasticity
- Remarkable surface hardness
- Odorless
- Great color stability
- Adhesive properties unchanged over time
- Re-coating
- Adhesion without primer even in humid or underwater environments
- Excellent extrusion
- Excellent transparency
- Excellent UV resistance

### INSTRUCTIOS FOR USE:

#### Using conditions:

Use at a temperature between +5 and +50 °C; to get the best performance it is suggested to use at a temperature of about 20 °C. It is suggested to let harden completely the product before any eventual painting.

#### Surface requirements:

The surface must be dry and without powdres, oils, release agents and fats. Once clean the surface thoroughly do not wait more than 15 - 20 minutes to place the product.

#### Tools for use:

Manual or pneumatic guns.

#### Cleaning for tools:

Make a correct cleaning with mineral spirits.



**Stains and residues:**

Remove the parts that have not yet been cross-linked using the GO-SIL silicone melt, the hardened parts can only be removed mechanically.

**TECHNICAL DATA:**

Appearance	thixotropic paste
Composition	hybrid polymer with silanic terminals
Polymerization system	hygro-hardening
Color	crystal clear

Unvulcanized rubber:

Density at 23 °C (ISO 2811)	1,04 g/ml
Consistency	it does not drip
Cross-linking speed at 20 °C /45 % r. h.	3 mm/24 h
Film formation time at 23 °C / 45 % r. h.	40 min.

Vulcanized rubber After 4 weeks of storage at 23 °C / 50 % r. h.:

Resistance to breakage (ISO 37)	0,90 N/mm <sup>2</sup>
Maximum elongation (ISO 37)	300 %
Modulus at 100 % elongation (ISO 37)	0,55 N/mm <sup>2</sup>
Shore Hardness A (DIN 53505)	35
Volumetric decline	< 2 %
Resistance to temperatures	-40 ÷ +100 °C
Chemical resistance:	

**Good:** Water, aliphatic solvents, mineral oils, bases and inorganic acids, fats.

**Low:** Aromatic solvents, concentrated acids, hydrocarbons.

**WARNINGS:**

Avoid contact with mucous membranes and skin. Use gloves to avoid irritation, especially in predisposed subjects. In case of contact with eyes, rinse thoroughly with water and consult a doctor. Do not dispose of empty containers in the environment.

**STORAGE:**

In its original packaging in a dry place, protected from direct light, in a cool environment at temperatures between +5 and 25 °C it has an average duration of 18 months.

**PACKAGING:**

Cartridges 290 ml, transparent colour.

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