
FIX ALL CRYSTAL

Revision: 30/11/2007

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Technical Characteristics:

Base	MS Polymer ®
Consistency	Stable Paste
Curing System	Moisture Cure
Skin Formation (*) (20°C/65% R.V.)	Ca. 10 min.
Curing Rate (*) (20°C/65% R.V.)	2 à 3 mm/24h
Hardness (DIN 53505)	38 ± 5 Shore A
Specific Gravity (DIN 53479)	1,04 g/mL
Elastic Recovery (ISO 7389)	> 75 %
Maximum Deformation	± 20 %
Temperature Resistance (fully cured)	-40°C to +90°C
Elasticity Modulus 100 % (DIN 53504)	0,80 N/mm ²
Tear Strength (DIN 53504)	2,40 N/mm ²
Elongation at break (DIN 53504)	300 %

(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates

Product:

Fix All Crystal is a crystal clear, neutral, elastic, single component sealant/adhesive based on MS-Polymers®.

Characteristics:

- Completely transparent
- Outstanding bond strength on nearly all surfaces
- High performance mechanical properties
- Very easy to tool and finish
- Good extrudability even at low temperatures
- Ecological advantages – free of isocyanates, solvents, halogens and acids
- Minimal health and safety considerations
- Can be painted with water based paints and a number of other systems (preliminary test required)
- Permanently elastic after full cure

Applications:

All interior and exterior bonding and sealing applications
Transparent and elastic bonding in many different construction and building applications
Invisible bonding of glass and other transparent materials.

Packaging:

Colour: transparent

Packaging: cartridge 290mL

Shelflife:

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Resistance to chemical agents:

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis

Poor resistance to aromatic solvents, concentrated acids, chlorinated hydrocarbons

Substrates:

Nature: All usual building surfaces such as glass, pre-treated timber, PVC, metals, stone, etc.

Surfaces should be clean and free of dust and grease

Priming: Porous surfaces should be primed with Primer 150. Surface Activator may be used on non-porous surfaces.

Remark: The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.

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While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding. For optimum adhesion the use of Surface Activator is recommended.

NOTICE: bonding plastics like PMMA (ie Plexi® glass), polycarbonate (ie Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Fix All Crystal is not recommended in these applications.

There is no adhesion on PE, PP and PTFE (Teflon®).

We recommend preliminary compatibility tests previous to application.

Joint dimensions:

Maximum Width: 1mm (connecting joints)

Recommendation: with of joint = 2x depth of joints

Application:

Method: Manual- or pneumatic caulking gun

Application temperature: +5°C until +35°C

Cleaning: Fix All Cleaner immediately after application and before curing

Tooling: with soapy solution before skin formation

Repair with: Fix All Crystal

Health- and Safety Recommendation:

Apply the usual industrial hygiene.

Check the packaging for more information

Remarks:

- Fix All Crystal may be overpainted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application. The drying time of alkyd resin based paints may increase.
- Due to the wide variety of possible substrates, Soudal recommends a preliminary compatibility test.
- Fix All Crystal can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate, etc, may differ from manufacturer to manufacturer, we recommend preliminary compatibility test.
- Not suitable for dilatation joints
- Do not use in applications where continuous water immersion is possible or in sanitary applications.
- Fix All Crystal displays very good UV stability but may discolour in extreme conditions or after many years of exposure.
- This product can not be used as a glazing sealant.

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