FIX ALL CRYSTAL

Technical Data

Basis	SMX Hybrid Polymer
Consistency	Stable Paste
Curing System	Moisture cure
Specific Gravity	1.05
Skin formation time (23°C/50% R.H) (min)*	Ca. 4
Curing Rate (23°C/50% R.H) (mm/24h)*	2->3
Hardness, Shore A, points**	38 ± 5
Tensile Strength (N/mm²) (ISO 37)**	Ca. 1.80
Elogation at Break (ISO 37)** (%)	Ca. 350
Elasticity Moduls 100% (N/mm²) (ISO 37)**	Ca 0.6
Maximum allowed distortion (%)	±20
Elastic Recovery (ISO 7389)**(%)	>75
Temperature Resistance (°C)	-40 ->90
Application Temperature (°C)	-5 -> 3

*These values may vary depending on environmental factors such as temperature, moisture and the type of substrate.
**This information relates to fully cured products.

Description:
Fix ALL Crystal is a high quality, crystal clear, elastic, one-component adhesive based on SMX-Polymer.

Properties:
- Crystal clear formulation.
- Excellent adhesion on nearly all surfaces,even if slightly moist.
- Very good mechanical characteristics.
- Impervious to mould, contains biocide with fungicidal action.
- Suitable for sanitary applications.
- Good extrudability even at low temperatures.
- Free of isocyanates, solvents, halogen sand acids.
- Can be painted with water based systems.
- Permanently elastic after curing application.

Applications:
- All common bonding applications, both in and outdoor
- Sealing joints indoors
- Transparent and elastic bonding in construction and building applications.
- Invisible bonding of glass and other transparent materials in indoor applications.
- Joints in bathrooms and kitchens.

Packaging:
Colour: transparent
Packaging: 290 ml cartridge

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

Health and Safety Recommendation:
Take the usual labour hygiene into account.
Consult label and material safety data sheet for more information.
Dangerous! Respect the precautions for use.

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.

Technical Data Sheet

Joint Dimensions:
Min. width for bonding: 1 mm
Min. width for joints: 5 mm
Max. width for bonding: 3 mm
Max. width for joints: 10 mm
Min. depth for joints: 5 mm

Substrates:
Substrates: all usual building substrates, glass, treated wood, PVC, plastics, metals, stone, concrete etc.
Nature: rigid, clean, dry or slightly moist, free of dust and grease.
Surface preparation: Porous surfaces should be primed with Primer 150. Prepare non porous surfaces with a Soudal activator or cleaner. 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 or sealing.
NOTICE: bonding plastics like PMMA (e.g.Plexi® glass), polycarbonate (e.g. Makrolon®or Lexan®) in stress loaded applications can give rise to stress cracking and crazing inthese substrates. The use of Fix ALL Crystal is not recommended in these applications. Not suitable for PE, PP, PTFE (eg Teflon®), bituminous substrates, copper or copper containing materials such as bronze and brass.
We recommend a preliminary adhesion and compatibility test on every surface.

Application Method:
With a manual, pneumaticor or accu-caulking gun.
Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use.
Cured Fix ALL Crystal can only be removed mechanically.
Finishing: With a soapy solution or Soudal Finishing Solution before skinning.
Repair: With the same material.

Remarks:
- Fix ALL Crystal is paintable with water based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before appication.
- The drying time of alkyd resin based paints may increase.
- 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, were commend preliminary compatibilty test.
- Fix ALL Crystal is not suitable for expansion joints.
- Do not use in applications where continuous water immersion is possible.
- Fix ALL Crystal can discolour under extreme conditions or after very long UV exposure.
- Fix ALL Crystal can not be used as a glazing sealant.
- Not suitable for bonding aquariums.
- Fix ALL Crystal cannot be used on natural stone.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap remainings will stimulate the development of fungi.
- A total absence of UV can cause a color change of the sealant.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discolouration and loss of adhesion.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next oneis applied.

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 hydro carbons.