

Ultra Repair Adhesive

Revision: 18/10/2022

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Technical data

Basis	SMX Hybrid Polymer
Consistency	Liquid paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 5 min
Hardness**	30 ± 5 Shore A
Density	Ca. 1,10 g/ml
Max. tension (ISO 37)**	> 4,00 N/mm ²
Elongation at break (ISO 37)**	> 150 %
Curing time*	End strength achieved after 24 hours
Temperature resistance**	-40 °C → 90 °C
Application temperature	5 °C → 35 °C

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

Product description

Ultra Repair Adhesive is a high quality, transparent, neutral, elastic, single component adhesive based on SMX® technology.

Properties

- Extremely strong.
- Transparent formula
- Fast strength build-up, can be stressed after 1,5 hour.
- Adheres on many surfaces
- Permanently elastic after curing
- Solvent free
- Odorless
- In and outdoor use

Applications

- Bonding of the most common materials such as rubber, leather, artificial leather, cork and plastics to several substrates or to itself.
- Bonding of transparent materials as glass, polycarbonate and PMMA.
- Bonding of porcelain, pottery, gemstones,...

Packaging

Colour: transparent

Packaging: 20 ml tube

Shelf life

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

Chemical resistance

Good resistance to (salt)water, aliphatic solvents, hydrocarbons, ketones, esters, alcohols, diluted mineral acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: a variety of porous and non-porous materials, glass, wood, ceramic tiles, metals, stone, concrete, carton, some synthetic materials (NOT nylon and PMMA), leather
Nature: rigid, clean, free of dust and grease.

The to be bonded materials should be flat and well fitting as well as clean, dry and free of dust and grease.

Surface preparation: The surfaces should be degreased before bonding them together. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion test on any substrate.

Remark: This technical data sheet replaces all previous versions. 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. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Application method

Join the parts together and press for 60 to 120 minutes. Do not load the bonded parts for the first one and a half hour.

Application method: Surfaces must be cleaned, degreased and dry.

Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use

Repair: With the same material.

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

Health- and Safety Recommendations

Take the usual labour hygiene into account.

Consult label for more information.

Dangerous. Respect the precautions for use.

Remarks

- Ultra Repair Adhesive may be overpainted with water based paints, 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.
- Ultra Repair Adhesive 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.
- Ultra Repair Adhesive can not be used as a glazing sealant.
- Ultra Repair Adhesive has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- Ultra Repair Adhesive cannot be used on porous materials such as natural stone because of the risk of staining.
- Support may be required on a vertical fixing or for heavy components. If necessary support until adhesive is completely cured.

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