# Crystal MS

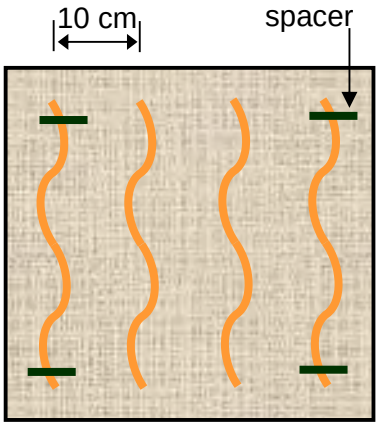
| Properties | Value | Unit | Method / Remarks |
|---|---|---|---|
| | System | | |
| Chemical Base | Hybrid | | |
| Consistency | paste | | |
| Density | 1.05 | g/ml | ISO 2811 |
| Color, cured adhesive | Crystal clear | | |
| Storage temperature range | +5 to +25 | °C | |
| Shelf life | 15 | months | +5 to +25 °C |
| | Handling | | |
| Application temperature range | +5 to +40 | °C | |
| Surface temperature range | +5 to +40 | °C | |
| Cartridge temperature range | +0 bis +25 | °C | |
| Skin formation time | 5 - 50 | min | |
| Tack free time | 5 – 15 | min | |
| Curing rate | 3,5 – 4,5 | mm/24h | |
| Flow from vertical surfaces | 0 - 3 | mm | ISO 7390 |
| Fully cured after | 48 | h | 20 °C |
| Max. gap fill | bonding < 2 | mm | |
| | sealing 6 - 25 | mm | |
| Application | One or both sided; entire surface, wavelike or in spots | | |

| | Performance of cured material | | |
|---|---|---|---|
| Service temperature range | -40 to +110 | °C | |
| Shrinkage | 1 - 4 | mm | ISO 10563 |
| Movement accommodation | 25 | % | ISO 9047 |
| Elastic recovery | < 40 | % | ISO 7389 |
| Elongation at break | 90 - 120 | % | ISO 8339 |
| Module at 100% elongation | 1 – 1,15 | MPA | ISO 8339 |
| Hardness | 40 ± 5 | Shore A | |
| Standards | EN 15651-1: F-EXT-INT 12,5P<br>EN 15651-3: S S1<br>EN 13501-1: +A1: E | | |

## Directions for use

Surfaces must be clean and free of dust and grease.
One of the materials to be joined together should be absorbent.
Use a soap solution to smooth before the skin forms.

To bond two non absorbent materials with each other, please note the following:
The adhesive must be applied in shape of parallel strings in a distance of about 10 cm. To guarantee rear ventilation, the substrates must not be pressed completely together. If necessary insert a spacer (for example a match without head) in the adhesive gap (see drawing below).



## Application

Bonding and sealing in the construction and metal industries.
For sealing and connecting skirting boards, plasterboard, panels, terracotta, wood, metals. Crystal MS is also suitable for surfaces made of glass, natural stone, marble and granite.

Powerful, elastic bonding of metals, plastics, concrete, brick, plasterboard, wood, render, ceramic, aircrete, fibre cement, HPL, pumice, ABS, cork, enamel, glass, natural stone and many more.

For bonding PC and PMMA with Crystal MS consider, that the bond is only adequate when glued strainless.
For sealing and connecting of building and construction elements made of glass, steel and natural stone.

At least one of the components to be bonded must be absorbent. To bond two non-absorbent materials: see “directions for use”.

Not suitable for bonding to PE, PP, PVC, neoprene, PTFE and bituminous substrates, as well as for underwater applications, permanent wet loads and for aquariums.
The cured adhesive may yellow when exposed to direct sunlight.

## Properties / Features

- Rapid hardening
- crystal clear
- Excellent mechanical properties
- Universally applicable
- High adhesive strength, seals like silicone
- also adheres to damp surfaces
- Odorless
- Low shrinkage
- Free of silicone and solvents
- paintable *

* fischer Crystal MS can be painted over with many coating systems. Not suitable for alkyd resin paints. Due to the large number of paint systems available on the market, we recommend appropriate compatibility and adhesion tests in advance.

## Surface cleaning

At least one surface should be porous. Substrates should be dry, clean and free of dust, grease and loose particles.

## Directions for use

Use a caulking gun. Apply the adhesive onto one surface in beads or dabs (every 15 cm for panels). Always apply the adhesive to the edge and cones of the panels.
Clean equipment used immediately upon completion.

## Cleanup

Before hardening - with water, after - mechanical cleaning.

## Storage

Cool and dry storage at temperatures between +5°C and +25°C. Do not expose to frost.

## Classification and Labelling

Labelling not required.

Only recycle when empty.

For further safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

The information in this adhesives brochure and our application-technology consulting, verbally and in writing, is given to the best of our knowledge, but is non-binding and is not a guarantee in the sense of § 443 BGB. We recommend that, before using our products, you check the suitability for the intended application. As the individual product can be used for a wide range of applications and the conditions on site that cannot be estimated, we also recommend testing the bonding before using the product.