

PRODUCT DATA SHEET

Sika® Crystal Clear MS

ONE PART, CRYSTAL CLEAR, MULTI-PURPOSE ADHESIVE AND SEALANT

PRODUCT DESCRIPTION

Sika Crystal Clear MS is a crystal clear adhesive and sealant suitable for many applications. It is ideal for bonding and sealing where a transparent, almost invisible joint or bond is required.

USES

- Interior and exterior sealing and bonding applications (refer to limitations section)
- Transparent, near invisible connection joints
- Bonding interior fittings and assembly work
- For a wide variety of substrates including timber, glass, metals and plastics
- Decorative projects

CHARACTERISTICS / ADVANTAGES

- Glass-like clarity
- MS Technology
- Easy to tool and finish
- Paintable
- Excellent adhesion
- Water resistant
- Solvent free
- Isocyanate free
- Virtually odourless
- Non-corrosive
- Suitable for many different substrates

PRODUCT DATA

FORM

One part transparent paste based on MS/SMP polymer

COLOUR

Crystal clear

PACKAGING

300ml cartridges, 12 cartridges per carton

STORAGE**STORAGE CONDITIONS / SHELF-LIFE**

Twelve (12) months from date of production when stored in cool, dry conditions, out of direct sunlight at temperatures between + 5°C and + 25°C.

TECHNICAL DATA**DENSITY**

1g/cm³

CURE SYSTEM

Moisture cure

CURE RATE

1 day ~ 2-3mm (23° C, 50% R.H.)

SKIN-OVER TIME

10-15 min. (23° C, 50% R.H.)

APPLICATION TEMP.

+ 5°C to + 40°C.

CURED PROPERTIES 100% ELONGATION

(14 days at 23° C, 50% R.H.)

ISO 37 - rod 1 0.6 N/mm²

SHORE A HARDNESS

ISO 868 35

ELONGATION AT BREAK

ISO 37 - rod 1 >200%

TENSILE STRENGTH

ISO 37 - rod 1 1.50 N/mm²

System Information**APPLICATION CONDITIONS****INSTRUCTIONS FOR USE**

- Substrates must be clean and free of dust and grease. The method of application will depend on the job in question.
- Cut tip off cartridge. Cut nozzle to desired size at 45° angle. Screw nozzle onto cartridge. Place cartridge into Sika caulking gun.
- Hold gun at 45° angle with nozzle in contact with both sides of joint.
- *Joints:* Apply sealant by pushing sealant ahead of nozzle, thus ensuring sealant is pushed firmly into place.
Bonding: Apply to one of the substrates to be bonded and position together. Make sure enough adhesive is placed in the bond and avoid squeezing adhesive out when joining surfaces together.
- Smooth or remove excess adhesive/sealant by tooling immediately with a spatula dipped in turpentine to give a neat finish.
- Sika Crystal Clear MS will skin in approximately 10-15 minutes. Maximum toughness is achieved over several days.

CLEANING

Wipe off any uncured excess sealant immediately, and clean up with Sika Thinner C or mineral turpentine. Cured material can only be removed mechanically.

PAINTABILITY

Sika Crystal Clear MS can be overpainted after curing with water based paint. Oil based paints require a water based undercoat. However, as with all elastomeric sealants, paint coatings may cause undesirable side effects. Movement accommodation ability may be reduced. Dirt pick-up and discolouration may occur in the long term. We strongly recommend a compatibility test before application.

IMPORTANT NOTES / LIMITATIONS

- Do not use for structural window glazing.
- Do not use in joints subject to movement over 20%.
- If used on natural stone the clarity of the product will cause the surface to look wet which may be mistaken for staining. For this reason Sika Crystal Clear MS should not be used on natural stone.
- Do not use to seal structures that are permanently immersed in water, such as fish tanks.
- Do not use on bitumen or in conjunction with silicones.
- Do not use on wet porous surfaces such as concrete and wood.
- Do not use where abrasion or physical attack can be expected.
- Sika Crystal Clear MS can be used on a wide variety of substrates but we recommend preliminary compatibility tests if any doubt regarding suitability exists.
- Sika Crystal Clear MS has very good UV stability but may discolour after long term exposure or in extreme conditions.
- Do not use on plastics such as polycarbonate in stress loaded applications, as this can cause stress cracking and crazing in the substrate.
- There is no adhesion to PE, PP, PTFE or PMMA plastics.

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

HEALTH AND SAFETY INSTRUCTIONS

PROTECTIVE MEASURES

- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Safety Data Sheet which is available on request.
- If in doubt always follow the directions given on the pack or label.

IMPORTANT NOTES

- Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
- Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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