

## MS Hybrid

### Product Description

Elastic, neutral crosslinking, solvent-free, one-component sealant based on hybrid polymer. Reacts with moisture. Hybrid polymer system.

### Product Properties

- very low emission - EMICODE EC1<sup>Plus</sup>
- meets the strict ecological requirements of various institutes
- tested for food compatibility
- suitable for many wood varnishes
- suitable for indoor and outdoor use
- gluing and sealing with the same product
- universally applicable
- can be used throughout the entire construction sector
- very good adhesion on a variety of substrates
- can be processed on moist substrates
- permanently elastic
- stable
- long-term smoothing capability
- excellent self-adhesion, therefore also usable as an adhesive
- paintable
- can be plastered
- ready-to-use
- not corrosive to metals
- temperature resistant from -20 °C to +100 °C
- weather resistant
- resistant to aging
- UV resistant
- odorless
- free of solvent, isocyanate and silicone
- phthalate-free
- halogen-free



## Areas of Application

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filling of cracks and expansion joints, outdoors, weather-stressed joints, facade construction, window sills, sheet metal masking, connection joints for roof windows, joints in the roof area, floor coverings and skirtings, doors, partition walls, pre-cast walls, inner door frames, roller shutter boxes, air conditioning and ventilation systems, fan housings, metal construction, wet rooms, repair and reconditioning works

## Form of Delivery

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Cartridge: 290 ml  
Packing unit: 20 cartridges per box

## Substrates

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### Suitable substrates:

plaster, concrete, aerated concrete, masonry, brick, clinker, cement, fiber cement, plasterboard, wood, wood chipboard, lacquered, glazed or impregnated wood, wood fiber boards, aluminum, corrosion-protected metals, copper, zinc, iron, steel, brass, zinc sheet, ceramics, tiles, enamel, terrazzo, natural stone, artificial stone, glass, carpet, many plastics, hard PVC

### Conditionally suitable substrates:

tar and bituminous substrates, gypsum only with primer

### Unsuitable substrates:

PIB, PTFE, PP, PE, mirror backside, lead

## Instructions for Use

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The adhesive surfaces must be clean, dry, free from release agents and firm. Dust, grease, oil and loose parts must be removed before processing. Generally non-absorbent, closed-pore substrates should be pretreated with GRUNDIERUNG GP and absorbent, open-pore substrates with GRUNDIERUNG OP in order to achieve a best possible adhesion. Allow the primer to evaporate well. Be careful when using a primer as it may stain the substrate. In any case, a test should be made beforehand.

We advise to carry out a suitability test for the large number of substrates, building materials and/or coatings used today, especially for plastics, paintings and powder coatings.

The use of a PE round cord as a joint backfill material is recommended to avoid three-point-adhesion. Before beginning, the joint edges should be taped with suitable adhesive tape. Cut off the cartridge nipple with a sharp knife. Screw the nozzle onto the cartridge and cut it to the desired width. Insert the cartridge into the ejector gun and eject the sealing compound evenly and without any cavities. Spray the sealant with INSEBO smoothing agent before skin formation and smooth it with a joint spatula. Then remove the adhesive tape and any sealant residues before curing. It is necessary to check whether a coating, which is applied on the joint afterwards, is elastic enough to allow permanent joint movement. It is also necessary to check the compatibility of the sealant and the paint beforehand. Some paints can cause color changes of the mass and affect the adhesion.

When handling large quantities in enclosed spaces, fresh air must be provided during the curing time. The sealant is odorless after curing.

Store cartridges cool and dry. Higher temperatures shorten shelf life.

## Technical Data

| Characteristics                                       | Standard                          | Value                         |
|---|-----------------------------------|-------------------------------|
| Classification according to                           | EN 15651-1 (facade elements)      | 20HM                          |
| Classification according to                           | EN 15651-3 (sanitary)             | XS1                           |
| Classification according to                           | EN 15651-4 (pedestrian paths)     | 12,5 E                        |
| Density   | EN 1183-1                         | 1,5 ± 0,1 g/cm <sup>3</sup>   |
| Shore A hardness                                      | EN ISO 868                        | approx. 40                    |
| Skin formation time (normal climate 23/50)            |                                   | approx. 20 - 30 min.          |
| Curing (normal climate 23/50, depending on substrate) |                                   | approx. 2 mm after 24 h       |
| Permissible total deformation of the joint            |                                   | 20 %                          |
| Stability   | EN 7390 (no sagging in the joint) | ≤ 1 mm                        |
| Volume loss   | EN 10563                          | 2,8 %                         |
| Tension behavior                                      | EN 8339 (E-modulus 100)           | < 0,8 N/mm <sup>2</sup>       |
|   | EN 8339 (E-modulus 25)            | approx. 0,4 N/mm <sup>2</sup> |
| Resilience  | EN 7389                           | > 70 %                        |
| Elongation at break                                   | EN 8339                           | 180 %                         |
| Temperature resistance (cured mass)                   |                                   | -20 to +100 °C                |
| Processing temperature                                |                                   | +5 to +40 °C                  |
| Shelf life cartridge (dry, at +5 to +25 °C)           |                                   | 15 months                     |

## Safety Instructions

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Please refer to our safety data sheet and the product label for further information on product safety and handling.

Current safety data sheets and further information on our products can be found at [www.insebo.com](http://www.insebo.com).

## Service

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Upon request, our trained sales representatives are always at your disposal.

## Disposal

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For disposal instructions please refer to our safety data sheet and product label.

## Additional Information

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This technical data sheet advises without obligation and guarantee. The mentioned processing instructions have to be adapted to the prevailing conditions. The user is obliged to check the suitability and application by own experiments in order to avoid failures.

All given descriptions, data, ratios, weights, etc. can change without notice and do not represent contractually agreed properties of the product. Existing laws, standards and regulations are to be observed by the recipient of our products in their own responsibility.

Due to environmental influences, such as chemical stress, vapors, UV exposure or high temperatures, color changes can occur. However, other product properties are not affected by these changes.

Due to the large number of possible influences during processing and application, a guarantee of certain properties or suitability for a specific application can not be made, own tests are necessary.

The right to make technical changes is reserved.

## Test Certificates

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| <b>Food compatibility</b> | <b>harmless in food-related area</b>   |
| Testing institute:        | ISEGA Forschungs- und Untersuchungsgesellschaft mbH  |
| Report:                   | 47102 U 18   |
| Int. PZ no.:              | DM44   |
| <b>GEV-EMICODE</b>        | <b>EC1<sup>Plus</sup> – very low emission</b>  |
| Testing institute:        | GEV Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V. |
| Report:                   | 8724/02.04.14  |
| Int. PZ no.:              | DM82   |