

FMS INSTANT

DESCRIPTION:

Mono-component, fast cure MS Polymer Adhesive Sealant with high initial adhesive strength.
 Excellent impact resistance and movement absorption.

APPLICATIONS:

For instant bonding and sealing of metal and plastic pieces, panels, plates, mirrors, insulating sheets, pre-fabricated elements, MDF panels and industrial bodywork where a resilient and flexible bond is required.
 Excellent adhesion to most substrates including brick, tile, concrete, metal, plastic, marble, granite, polystyrene, polycarbonate, glass, pvc, wood, MDF, melamine, aluminium & ceramics.

PROPERTIES:

- Ultra high strength 300kg per 10cm²
- **DOES NOT CONTAIN:** Isocyanates, Silicone or Solvents.
- Excellent adherence without primer on most materials for the automotive and manufacturing industries.
- Good mechanical, chemical and weather resistance.
- Remains flexible from -40°C to +90°C.
- Very Good UV resistance.
- No shrinkage.
- Absorbs vibration and noise.
- Permits sanding and painting.

INSTRUCTIONS:

A) SEALING JOINTS

Dimensioning joints:

Their width must be at least 5 times greater than the maximum expected movement.
 Sealing depth will be chosen depending on the width of the joint, according to the following Table (values in mm.):

WIDTH	5/6	7/9	10/12	12/15
DEPTH	5	6	7	8

For widths greater than 16mm, depth must be equal to half the width.

Forming joints:

The surface to be joined must be flush in order to prevent Sintex **FMS** from adhering to the bottom of the joint, which would exert unnecessary stresses on the sealant. Meanwhile, regular depth is also obtained, as well as greater yields. The material used must be inert, mechanically stable, homogeneous, rot proof, and must not adhere to the sealant or contiguous materials.

A particularly appropriate product is closed-cell Polyethylene Foam, extruded into regular-section strips, such as our POLITEN-CEL.

Preparing the joint:

The surfaces must be clean and dry. If need be, we recommend cleaning with a non-grease solvent, for example acetone.
 Any surface not known to the user in terms of adhesiveness must be tested previously, or our Technical Department should be consulted.

Working technique:

Cut the cartridge tip, screw on the nozzle and bevel it to the required size. Insert the set in the application gun.
 The appropriately treated joint is filled with **Sintex FMS**. To avoid smudging the edges, these may be protected with masking tape. For a better finish, the sealant may be smoothed with a spatula. The tapes should be removed before the skin formation.

Yield:

The following formula is an approximate guideline to calculate foreseen yield for a standard cartridge of **Sintex FMS**.

$$L = \frac{280}{A \times D}$$

where:

- L = Length of sealant in metres obtained per cartridge.
- A = Width of the joint in mm.
- D = Depth of the joint in mm.

Further treatment:

Sintex FMS requires no protection from the weather. Nevertheless, it can quite easily be painted with any acrylic paint as long as it is sufficiently elastic.

TECHNICAL FEATURES:

Uncured MS Instant

Appearance: Homogenous Creamy Paste

Slump resistance
(NF P 85501): mm. none

Tack free
(ASTM C-679-71): minute 5

Skin over time
(BS 5889 Ap.A): minute 15

Curing rate at 23°C
and 55% h.r.: mm/day 5

Volume loss
(DIN 52451) % <2

Flash-point
(DIN 51794) °C 430

Application
Temperature: °C +5 to +50

Cured MS Instant

(4 weeks at 23°C and 55% h.r.)

Appearance: Similar to rubber.

Shore A Hardness
(DIN 53505): -- 50

Elastic modulus 100%
(DIN 53504): Mpa. 1.5

Tensile strength
(DIN 53504): MPa. 3.0

Elongation at break
(DIN 53504): % 400

Movement
accommodation factor: % 25

Temperature range
in service: °C -40 to +90

UV and weather resistance: Very good

Chemical resistances:

Water, soapy water, brine: Very good

Inorganic diluted acids and alkalis: Very good

STORAGE:

Keep in a cool, dry place.

Lifetime: 12 months cartridge

PRESENTATION: In 300ml plastic cartridges.
In 24 cartridge boxes.

COLOURS: White

CLEANING

Fresh product is easily removed with an organic solvent.
When cured it can be removed by mechanical means only.

SAFETY AND HYGIENE

While curing **Sintex FMS** issues a small amount of methanol.

These vapours must not be inhaled for prolonged periods of time or in high concentration levels.

Therefore, the working area should be well ventilated.

Due to possible irritation, all contact of the product with eyes or mucous areas must be avoided.

If this should occur, rinse the affected area thoroughly with plenty of water and, if needed, see a doctor.

Rubber resulting after curing can be handled without risk.

Use gloves, and in case of splashing, wash with industrial detergent when the product is still fresh.

DO NOT WASH HANDS WITH SOLVENTS.

For more information request Safety Data Sheet.

NOTE:

Technical indications and data appearing in this brochure are based on our current knowledge and experience and we decline all responsibility for consequences derived from inadequate use. Therefore, our guarantee is limited exclusively to the quality of the product supplied. This technical information can be modified without notice. If necessary request it periodically.

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