

# TECHNICAL DATA SHEET

## MS 40FC



### Multi Adhesive

Promast MS 40FC is an environmentally friendly, single component, high modulus MS Polymer based Sealant for automotive and construction industry. Thanks to its unique Fast Curing and strong bonding features, Promast 40FC is preferred especially in the automotive, caravan and prefabricated assembly applications. Promast MS 40FC does not contain any solvents and/or isocyanates. It contains low VOC.



Strong  
Adhesion



Fast  
Curing



Paintable



### TECHNICAL DATA

■ Basis	MS Polymer
■ Consistency	Stable Paste
■ Curing system	Moisture Curing
■ Tack-free time	Ca. 5 mins
■ Skin formation time * (20 °C / 65% R.H.)	Ca. 20 mins
■ Curing speed * (20 °C / 65% R.H.)	(2,5 – 3,5) mm /24h
■ Hardness (DIN 53505)	40 ± 5 Shore A
■ Density	1,40 ± 0,05 g/ml
■ Temperature resistance	-40 °C → 90 °C
■ Max. tension (DIN 53504)	> 2,50 N/mm <sup>2</sup>
■ Elasticity modulus 100% (DIN 53504)	> 0,70 N/mm <sup>2</sup>
■ Elongation at break (DIN 53504)	> 500%
■ Application temperature	5 °C - 35 °C
■ Self life	15 Months

(\* ) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

### APPLICATIONS AREAS

- Construction boards: Plywood, Laminated timber, OSB, Chipboard...
- All vibrating metal joints of all types of vehicles.
- Window frames, doorsteps, decorative frames.
- Structural bonding in vibrating constructions.
- Insulation materials: Polystyrene, Mineral wool, Fiberglass, Polyurethane...
- Floor joints, stair steps, roof edges.
- Green-houses.

### SPECIFICATIONS

- Fast curing – 15 minutes after application.
- Non-staining on natural stones, marbles, granites and such substrates.
- Excellent adhesion to most materials such as metal, aluminum, glass, wood, stainless steel, copper, iron, brick, concrete, some plastics and their combinations...
- Excellent color stability, non-yellowing. • Not affected by surface moisture during curing, does not bubble.
- Does not contain any hazardous chemicals, odorless.
- High UV resistance.
- Over-paintable.
- Non-sagging.
- Non-shrinking.
- Weatherproof.

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### REMARKS

- Promast MS 40FC may be overpainted with water-based paints, however, due to a 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.
- Promast MS 40FC can be applied to a wide variety of substrates. We recommend a preliminary compatibility test because specific substrates such as plastics, polycarbonate, etc, may differ from manufacturer to manufacturer.
- Promast MS 40FC can not be used as a glazing sealant.
- Not suitable for bonding aquariums.
- Promast MS 40FC can be used for bonding of and sealing on natural stone.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits, or soap remainings will stimulate the development of fungi.
- Do not use in applications where continuous water immersion is possible.
- A total absence of UV can cause a color change of the sealant.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Promast MS 40FC has a good UV resistance but can discolor under extreme conditions or after very long UV exposure.
- Discoloration due to chemicals, high temperatures, UV radiation may occur. A change in color does not affect the technical properties of the product.
- Contact with bitumen, tar, or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discoloration and loss of adhesion.

### 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.

### SURFACE PREPERATION

Surfaces which contact with sealant must be clean and dry and not contain any oil, dust or rust. Non-porous surfaces must be cleaned in advance with a suitable solvent. Applied solvent must be wept well from the surface without allowing it to evaporate. Applying masking tape around the application joints prevents smudging and provides a more aligned application. Masking tape must be removed promptly after application. Primer is not needed before the application on non-porous surfaces like faience, ceramics and glass. Primer use may be required for some metal and plastic types.

### APPLICATION METHOD

With manual - or pneumatic caulking gun.

### PACKAGING (Volume)

290 ml cartridge  
400 ml sausage  
600 ml sausage

### SHELF LIFE

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

### COLORS



White Grey Black



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