



TEKAFLEX

MS 40 FOR METALS



TEKAFLEX MS 40 for metals is a one-component sealant and glue on the basis of a hybrid MS polymer for sealing and gluing most construction, metal and plastic materials. It is environment friendly.



PROPERTIES

- Excellent adhesion on most construction material - concrete, brick, wood, aluminum, iron, stainless steel, copper and various plastics
- Good output even at low temperatures
- Does not slump in vertical joints
- Excellent characteristics, great hardness
- Environment friendly: contains no solvents, isocyanate and silicones
- Totally chemically neutral and odourless
- Can be painted with most paints and varnishes on the basis of epoxy, polyurethane and water
- Shrinkage lower than 1%
- Resistant to various atmospheric conditions and aging, also UV resistant
- Chemical resistance
- Good to:
Water, aliphatic solvents, mineral oils, fat, low concentration anorganic acids and bases
- Bad or not resistant to:
Aromatic solvents, concentrated acids, chlorinated hydrocarbons
- Colour: grey, white, others on demand

USE

- For dilatation joints in construction, car industry, boat making
- Sealing and gluing various materials
- For panel gluing, roofing. For gluing constructions under vibrations
- For sealing joints in vacuum systems, in networks containing compressed air, containers, cisterns, silos, aluminum constructions

TECHNICAL DATA

Uncured sealant

Basis	hybrid MS polymer
Form	paste
Curing mechanism	moisture curing
Specific gravity	1390 ± 10 kg/m ³
Skin formation time	23 °C/ 50 % rel. humid. 25 ± 5 min
Hardening time	23 °C/ 50 % rel. humid. 2 - 3 mm/day
Application temperature	+ 5°C to + 30°C

Hardened sealant

Hardness Shore A	ISO 868	35 - 40
Change in volume	ISO 10563	< 1%
Tensile strength	ISO 8339	1,2 - 1,5 MPa
Module E 100%	ISO 8339	> 0,80 MPa
Elongation at break	ISO 8339	200% - 300%
Tensile strength	ISO 37 rod 1	2,40 - 3,00 MPa
Elongation at break	ISO 37 rod 1	250 - 350%
Temperature resistance		- 40°C to + 90°C

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APPLICATION

Surface preparation:

The surface of the joint must be hard, clean, dust and fat free. Remove all separated and badly attached pieces.

Joint and cartridge preparation:

- For better adhesion onto porous surfaces use Primer KVZ 16.
- If you want joints to look nice tape the edges with masking tape.
- Cut the cartridge at the top and screw on the nozzle, which has to be cut according to the width of the joint and placed in the gun. During work interruption release the handle on the gun and pull the piston back.
- The sealant should be applied as evenly as possible
- At the end, level the sealant with an appropriate instrument or a well soaped finger.
- Remove the masking tape before the sealant starts to harden.
- Fresh sealant and tools can be cleaned with alcohol

Correct dimensioning of dilatating joints:

For the optimal elastic characteristics of the sealant, a correct width/depth ratio is important (2:1) or a maximum of 1:1. The sealant must not grip the bottom of the joint, but only its sides. We can achieve this with the use of underlying materials, onto which the sealant has no adhesion (foamed polyethylene, polyurethane). The minimum joint width is 6 mm, the maximum 20 mm.

Joint depth (mm)	Joint width (mm)					
	6	8	10	12	15	20
6	8,3	6,2	5,0	4,2		
8		4,7	3,7	3,1	2,5	
10			3,0	2,5	2,0	1,5
12				2,1	1,7	1,2
15					1,3	1,0
20						0,75

The table shows how many linear metres of joints we can seal with one 290 ml cartridge relative to the width and depth of the joint.

PACKING

- 290 ml cartridges (20 pieces in carton)
- 600 ml sausages

STORAGE

12 months in a dry and cool storage place at temperatures between + 5 °C and + 25 °C in the originally sealed package

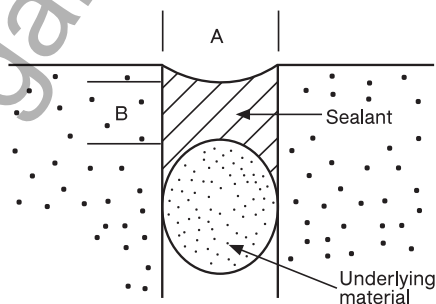
SAFETY PRECAUTIONS

There are no known safety issues concerning the Tekaflex MS 40 for use in construction.

ATTENTION

The information supplied is accurate to the best of our knowledge and is based on reliable tests and practical experiences. Properties quoted are intended, as a guide and do not therefore constitutes a specification. You should thoroughly test any application to be sure that product corresponds to the required performances.

Correctly dimensioned joint
 A:B =2:1
 Dimension A,B min 6 mm



Correctly executed angled joint
 Dimension A,B min 6 mm

