MS-TR

PRODUCT DESCRIPTION

- Transparent Adhesive and Sealant MS hybrid polymer based mono component suitable for invisible joints between materials

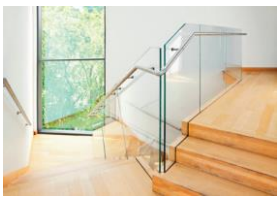
CHARACTERISTICS

- Easy application even at low temperatures
- Resistant to UV-light resistant, and atmospheric effects it doesn't bleach
- High durability, resistant to ageing
- Eco-friendly, doesn't contain diluents, isocyanate and silicones. Chemically neutral and odorless
- It doesn't release any substance while curing, doesn't cause corrosion
- Good mechanical properties (140 kg/10 cm^2), elasticity (250%) and flexibility, suitable for wet surfaces. Waterproof once it's cured
- Easily painted and sanded with most paints. Not recommended to be painted or covered with thinner based products.
- Excellent adhesion to different materials like marble, ceramics, brick, iron, steel, aluminum, glass, mirrors, PVC, polyester, polycarbonate, aluminum sheet, wood, etc. Not recommended for Polyethylene (PE), Polypropylene (PP) and Polytetrafluorethylene (PTFE).
- For indoor and outdoor use
- Thixotropic, does not slump in vertical joints, fast curing
- Transparent
- Resistant to various chemicals
- Resistant to extreme climatic conditions, rain and snow
- Service temperature: -40ºC +90ºC

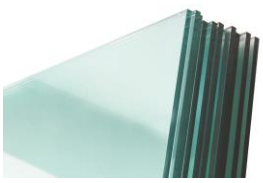
APPLICATIONS

- Visible joints that require elasticity or are exposed to vibrations
- Gluing of gutters, decks, frame joints and common building elements
- Suitable for joints of silos, tanks, containers and other aluminum elements
- Fixing material with a transparent joint, glass / glazing and transparent component

APPLICATION EXAMPLES


BASE MATERIAL




1. RANGE

ITEM	CODE	SIZE	PHOTO	COLOR	MATERIAL	
1	**MSTR290**	290 ml.			Transparent Adhesive and Sealant MS hybrid polymer based Format: cartridges of 290 ml	12

2. ACCESSORIES

ITEM	CODE	PHOTO	COMPONENT	MATERIAL
1	**MOPISSI**		APPLICATION GUN	Application gun for silicone cartridges

3. TECHNICAL CARACTERISTICS

3.1 MS-TR fresh adhesive

Characteristic	Criteria	Unit	Value
Appearance	[--]	[--]	Homogeneous paste
Skin formation	23°/50% relative humidity	Minutes	10 – 20 min
Curing speed/time	23°/50% relative humidity	mm / day	2 – 3
Resistance to flow	ISO 7390	mm	0
Application temperature	[--]	°C	+5 to +30

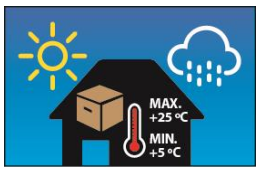
3.2 MS-TR cured adhesive

Characteristic	Standard	Unit	Value
Hardness shore A	ISO 868	[--]	30 – 35
Tensile resistance	ISO 10563	%	< 1,0
Elastic module 100%	ISO 8339	MPa	0,9 – 1,2
Elongation at break	ISO 8339	MPa	> 0,70
Tensile resistance	ISO 8339	%	150 – 250
Elongation at break	ISO 37	MPa	1,9 – 2,3
Change in volume	ISO 37	%	210 – 250
Elastic recovery	ISO 10563	%	< 1,0
Service temperature	[--]	°C	-40 to +90

4. STORAGE CONDITIONS

Keep the product stored in a dry place, away from direct sunlight and heat sources, at an average temperature between +5 ºC and +25 ºC.

Shelf life of unopened cartridge: 15 months from the date of manufacture. The expiration date is indicated on the cartridge.



5. PRODUCT APPLICATION

Application procedure

1. The surface of the joint must be dry, hard, clean, dust and fat free. Remove all separated and badly attached pieces.*
2. In case of better look is needed tape the edges with a proper masking tape.
3. 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. (see table). Apply the adhesive in line or in spots
4. During work interruption release the handle on the gun and pull the piston back. The sealant should be applied as evenly as possible.
5. At the end, use a smoothing tool, a smoothing agent soaped finger to level the sealant before the skin starts to form. It is very important to press the sealant well against the surface to be sealed. In case of gluing heavy elements, ir is recommended to use supplementary fixing until the product has cured
6. Remove the masking tape before the sealant starts to harden. Fresh adhesive can be cleaned with a proper cleaner, hardened sealant should be removed mechanically.

Cartridge utilization

For optimal elasticity of a sealant the correct ratio width: depth is of extreme importance. The ratio is 2:1, 1:1 maximum. Sealant should not adhere to the bottom of the joint gap but only to its sides. The minimum and maximum joint width is 6mm and 20mm, respectively

Joint depth (mm)	Joint width (mm)					
	6	8	10	12	15	20
6	8,3	6,2	5	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 above shows how many linear meters of joints we can seal with one 290 ml cartridge relative to the width and depth of the joint

*If the base material is unknown, tests must be done beforehand to ensure the product functions correctly.