



One-component type modified silicone <optional color paste, 4L can type>

MSK1-15

Product name

Sharpie LM-1 Multi color

Low modulus, one-component type sealant.

Compatible for joints of Ceramics, metallic sidings and ALC.

Pass JIS A 5758 qualified, F12.5E-8020(MS-1)

We be mixing 1 optional color paste with 1Can.

JAIA F☆☆☆☆

■Advantages

- ♦ Excellent weatherability and durability Resistance to UV, heat, cold, humidity,ozone High performance shows permanently
- ♦ Varieties of colors

 More than 400 color selections
- Strong adhesion properties
 Improve adhesion with recommended primer

■Application

- Joints of ceramics-sidings
- Joints of metallic-sidings
- Joints of ALC and so on

■Characterization

Product Name	SHARPIE Modified silicone NB-LM
Sealant Classification	JIS A5758 F-12.5E-8020(MS-1)* JIS certification No. CE0508023
Main Component	Special Modified silicone polymer
Consistency: Sealant / Color pase	Pasty / pasty
Mixing ratio	100:3.7

Based on JIS A 5758 & JIS A 1439

		*
Viscosity (Pa·s, 10rpm)	23°C	300 ~ 500
Density (g / ml)		1.35
Skin over time (hour)	23°C	4
Nonvolatile (%)		95.8
Extrudability (sec.)	23℃	3 ~ 5
Service Temperature		-20°C ~ 90°C

Cure Rate	Days of curing skin to 5mm
5°C, 50%RH	more then 10d
23℃, 50%RH	approx.2d~3d
50°C, 50%RH	approx.1d~2d

Cured property after 23°C*7days

Elastic Recovery (%)	72
50% Tensile Stress	0.15
Tensile Strength (MPa)	0.60
Elongation at break (%)	650
Hardness (Shore A)	13
Cohesion properties at maintained extension	no failure
Cohesion properties after compression heating/tension cooling	no failure
Cohesion properties at maintained extension at Immersion in water	no failure
Durability(8020)	Pass





Tensile Properties

Item Cure condition	Test condition	50% Tensile stress (N/mm²)	Maximum tensile stress (N/mm²)	Elongation at break (%)	
After curing	23°C	0.16	0.65	670	
After heating (80°C)	23°C	0.16	0.61	570	with primer P-50
After immersion in water	23°C	0.11	0.39	630	Substrate : Aluminum

■Recommend primer

Recommend substrates Product name		Note
Coated matel, concrete, ALC	SHARPIE Primer P50	Non yellowing aging

■Paintability

General reference. During primer or paint difference, confirmation request.

Classified	General	Adhesion	Non-stain	
	Acrylic resin lithin	0	0	For waterbase , be aware of
Single layer finish	Elastic lithin	0	Δ	water repellency
	Acrylic silicone	0	Δ	Adhesion O:Good
Multi-layer finish	Elastic spray lithin (waterproof)	0	Δ	∆:Normal
Thick layer finish	Synthetic stucco	0	Δ	× :Bad
Waterbase paint		0	Δ	Non-stain
Solventbase paint		0	Δ	⊚:Excellent O: Good
Oilbase paint		×	×	Δ:Slight(not effected)

Do NOT applied on oilbase or phthalic oxidatively-polymerized paint

■Usage amount

The length(m) of sealant operation per a 4L can

D W	10mm	15mm	20mm	25mm	30mm	Loss rate 20%
10mm	32	21.3	16			W: width.
15mm			10.67	8.53	7.11	D: depth.

The length(m) of primer operation per a 500g can

W		'				1
D W	10mm	15mm	20mm	25mm	30mm	Loss rate 30%
10mm	175	175	175			W: width.
15mm			116	116	116	D: depth.

Porous surface (concrete): about half length of non-porous surface.

■Notice

- ●The surfaces to be bonded must be dry, free of oil, dust, grease and other contaminants.
- ●NO operation when it rains or snows.
- •Before operation, wooden corrosion should be removed.
- CAN NOT operated on asphalt.
- ●NO application on the surface which contained volatile.
- ●DO NOT operated too thin.
- CAN NOT adhere to marble and glass.









■Temperature scope of sealant apply

The month of	Operating	Available (hr)			
manufacture	temperature	5°C	25°C	35°C	
5, 6, 7, 8	Approx. 20 \sim 35°C	-	2~4	1~2	
1, 2, 11, 12	A 5 05°0	0 [4 0		
3, 4, 9, 10	Approx. 5 ∼25°C	3∼5	1~2	-	

How to use

Please operate the product according to following procedure

- ①.Pre-study and preparation
- 2.Pre-check
- Seam/surface dust free and dried
- 4). Setup holder and accessaries
- 5. Setup the masking tape
- 6.Apply primer(primer tack-off time: 30min/20°C)
- Mixing sealant with color paste.

*Don't use hand drill type mixer *Before mixing, keep off dryer, aluminum sheet and cured sealant in can.

- 8.Apply
- 9. Use a spatula to finish the joint.
- 10. Remove the masking tape
- (1).Clear up around
- 12. Check the operation

Attention

- •Keep away from heat/sparks/static electricity/open flames/hot surfaces. No smoking
- · Do not breathe dust/fume/gas/mist/vapours/spray.
- ·Wear protective gloves/protective clothing/eye protection/face protection.
- ·Avoid release to the environment.
- ·IF SWALLOWED: Rinse mouth
- ·IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.
- •IF skin or eye contact occurs immediately flush with water for 15 minutes. And call a POISON CENTER or doctor/physician
- •IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- ·Keep out of reach of children
- ·Storage in a dark cold place. Keep away from sunshine.
- ·Construction and Industrial use ONLY
- ·See SDS for detailed description.

■Packaging

Sealant

SHARPIE SEAL LM-1 multi color can-type • • • 4L can x 2pcs/Carton ♦ color : optional color paste type of 400colors

Primer

SHARPIE Primer P-50 • • • 500g /can

★The data above, due to different materials and conditions of application which are beyond our knowledge and control we strongly recommend carring out sufficient tests in order to ensure that our products are suitable for the intended process and applications. Except for wilful acts any liability based on such recommendations or any oral advice is hereby expressly excluded.



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