

くらし・化わる生活想造企業シャープ化学

One component moisture cure type Modified Silicone Sealant

Product Name SHARPIE Modified Silicone M

MSC1-01 & MSP1-02 JAIA F☆☆☆☆

One component modified silicone ,High modulus type, Applicable to kitchen, washroom and bathroom. Excellent weatherability and thermal properties. The same quality as the JIS A 5758 F-20HM(MS-1).

Advantages

- Excellent Durability & Weatherability Applicable for most of joints
- ♦ Almost No Stain
 - Difficult to pick up dusts
 - Applicable without paint or coating
- ♦ Anti mold
- ♦ Paintable
 - Most of paint can be applicated
- ♦ Perfect Adhesion

Technical Product Data

Application

- Joints of exterior wall panels/boards
 roof materials
 - metal plate/siding
 - (*not applicable for ceramics siding)
- •Watertight and Airtight for interior joints
- · Terminal sealing of waterproofing sheet
- ·Repair of cracks of mortar/concrete

i comincar i roduct Data	
Product Name	Sharpie Modified Silicone M
Sealant Classification	Same As JIS A 5758 F-20HM * Non-authority by JIS.
Consistency	Pasty
Main Component	Special Modified silicone polymer

Based on JIS A 5758 & JIS A 1439

Viscosity (Pa·s, 10rpm)	23°C	300 ~ 500	Cure Rate	Days of curing skin to 5mm
Density (g / ml)		1.39	5°C, 50%RH	more then 10d
Tack-Free Time (min.)	23°C	60	23°C, 50%RH	approx.2d~3d
Nonvolatile (%)		97.5	50°C, 50%RH	approx.1d~2d
Extrudability (sec.)	23°C	3~5		
Service Temperature		-20°C ~ 90°C		

Cured property after 23°C*7days

Elastic Recovery (%)	75			
Tensile Properties [M60]				
(N/r	nm²)	-20°C	0.5	
50% Tensile Stress			0.35	
Tensile Strength (MPa)	1.10			
Elongation at break (%)	400			
Hardness (Shore A)	30			
Cohesion properties at maintained extension	no failure			
Cohesion properties after compression heating/tension	no failure			
Cohesion properties at maintained extension at Immer	sion i	n water	no failure	

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Tensile Properties

Item Cure condition	Test condition	50% Tensile stress (N/mm ²)	Maximum tensile stress (N/mm ²)	Elongation at break (%)	
After curing	23°C	0.48	0.81	260	with primer P-50
After heating (80°C)	23°C	0.51	0.92	250	Substrate : Aluminum
After immersion in water	23°C	0.34	0.72	350	

Based on ASTM C920: 2008

Item / Property	Method	Result	Details			
Class	C920	Class 25				
Туре		Type S				
Grade		Grade NS				
Rheological (Flow)	C639	Vertical: 0mm sag				
		Horizontal: No deformation				
Extrudability	C1183	>10ml/min				
Hardness	C661	27	Durometer Shore A			
Tack-Free Time	C679	Pass				
Adhesion & Cohesion Under Cyclic Movement	C719	No bond failure				
Effects Of Heat Aging	C1246	1.0%	No cracking and chalking			
Effects Of Accelerated Weathering	C793	No cracks after UV exposure and bend test				
Adhesion-In-Peel	C794	39.4 N (8.9 lbf)				
Staining	C1248	No surface stain	The primer was applied onto the substrates and allowed to dry till tack-free before application of the sealant.			

Fungal Resistance

Test micro-organisms: Aspergillus niger(ATCC 6275) ; Penicillium pinophilum(ATCC 36839); Paecilomyces variotti(ATCC 18502); Chaetomium globosum(ATCC 6205); Gliocladum virens(ATCC 9645) Adopted ISO 846 : 1997 Plastics-Evaluation Of The Action Of Micro-Organisms; Section 8.22 : Determination Of Fungistatic Effect (Method B)

Fungal resistance	Intensity of growth on	NOTE		
Inoculated test samles 0(None)		under standard temperature and moisture conditions without inoculatio		
Control samples	0(None)	inoculated with micro-organisms and incubated		
Sterile samples	0(None)	under standard temperature and moisture conditions without inoculation		
Viability Check	Growth			

Household bleach	No effect	Adopted ANSI Z124.3: 1995; (Section 5.2)
Urine/urea(6% uric acid)	No effect	

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Notice

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

Recommend primer

Recommend Substrates	Product Name	NOTE	
	SHARPIE Primer P-32	Non Yellowing (Weather Resistance)	
concrete, metal, wood	SHARPIE Primer P-50	Non-yellowing(weather resistance)	

Paintability

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

ClassifiedGeneralSingle layer finishAcrylic resin lithin		Adhesion	Non-stain	
		ithin O O		For waterbase , be aware of water repellency
	Elastic lithin	0	\bigtriangleup	Adhesion
Multi-layer finish	Acrylic silicone	0	\bigtriangleup	O:Good ∆:Normal
	Elastic spray lithin (waterproof)	0	\bigtriangleup	× :Bad
Thick layer finish	Synthetic stucco	0	0	
Waterbase paint	0	\bigtriangleup	Non-stain	
Solventbase paint	0	\bigtriangleup	O: Good $\Delta:$ Slight(not effected)	
Oilbase paint		×	×	

Do NOT applied on oilbase or phthalic oxidatively-polymerized paint

How to use

Please operate the product according to following procedure

- ①.Pre-study and preparation
- 2.Pre-check
- 3.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)

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.

Benefits of pouch system

- \diamond Reduced waste to ONLY 10%.
- \diamond Keep hands and equipment clean.
- \diamond Less space for storage

 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

 \bigcirc .Load the sealant into a caulking gun

(9). Use a spatula to finish the joint.

1. Remove the masking tape

(1).Clear up around

12. Check the operation

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.

(8).Apply

- \diamond Never roll down, more safety
- Easy operation in the limited space.
- \diamond Able to store after opening.

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Usage amount

The length(m) of sealant operation per a 320ml cartridge

D W	10mm	15mm	20mm	25mm	30mm	Loss rate 20%
10mm	2.6	1.8	1.3			W: width.
15mm			0.9	0.7	0.6	D: depth.

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

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.

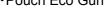
Packaging

Sealant

- Sharpie Modified Silicone M (MSC1-01) 320ml cartridge x10 /box 2boxes /bale ♦ color: White, Grey, Ivory, Brown, Black, Beige
- •Sharpie Modified Silicone M pouch type (MSP1-02) ... 330ml pouchx20 /case ♦ color: White, Grey, Light grey, Brown, Black, Stain color

Primer

- Sharpie primer P-32 . . . 500g/can
- Sharpie primer P-50 500g/can
- Pouch Gun
 - Pouch Pro Gun Pouch Eco Gun







★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.

シャープ化学工業株式会 37I SHARP CHEMICAL IND. CO., LTD. http://www.sharpchem.co.jp

http://www.sharpchem.co.jp

Headquarter Factory 〒592-8352 13-12Chikkohamaderanishi-machi, Nishi-ku, Sakai City, Osaka TEL: +81-72-268-0322 FAX: +81-72-268-3119

■Sunshine Chemical

Technology(SHANGHAI)CO.,LTD. 〒201-402 No.16-1Lane 2058DaYe Highway Fengxian District Shanghai, China TEL: +86-21-5740 6320 FAX: +86-21-5740 2721

Takasago Sales Office 〒592-8352 2-9-1 Takasago, Takaishi City, Osaka TEL: +81-72-268-0321 FAX: +81-72-268-0326

■Tokyo Sales Office 〒135-0016 5-26-9 Toyo, Koto District, Tokyo TEL: +81-3-3649-8103 FAX: +81-3-3646-6011

Sapporo Office 〒004-0845 5-2-25-20 Kiyota, Kiyota District, Sapporo TEL: +81-11-883-2489 FAX: +81-11-883-2145