

# Product name Sharpie<sup>™</sup> HYBRID M1-NB

MS1-04S JAIA F☆☆☆☆

Sharpie Hybrid M1-NB represents a novel eco-friendly, non-bleeding, one-component modified silicone sealant.

Contains no plasticizer, the main cause of bleed contamination in building materials. Complies with the quality standards of JIS A5758 architectural sealant F-12.5E-8020 (MS-1). Excellent weatherability, heat resistance, and cold resistance.

Excellent paintability, compatible with a wide range of construction paints.

## ADVANTAGES

- Good paintability, non-bleed type Plasticizer free, less darkening, prevent migration phenomenon.
- Fast curing Shorter construction period.

## TECHNICAL PRODUCT DATA

## ♦ General properties

Product name	SHARPIE Hybrid M1-NB
Product code	MS1-04S
Main component	MS polymer
Class	Same as JIS F-12.5E- 8020
Consistency	Paste
Color	White / Lt. Grey
Storage	15 Months
Viscosity(Pa · s)	$250 \sim 450$ ; $23^\circ\!\mathrm{C}$
Application temperature	$5^\circ\!\mathrm{C}\sim35^\circ\!\mathrm{C}$
Service temperature	$-20^\circ\!\mathrm{C}\sim90^\circ\!\mathrm{C}$
Paintability	Excellent

## APPLICATION

くらし・化わる生活想造企業シャ

- Construction siding and its joints.
- Construction ALC and its joints.
- Various boards and their joints.
- Crack joints in exterior/interior walls.

## Properties base on JIS A 5758or JIS A

Density (g /ml )	1.40	
Tack-free time (min.) 23°C		30
Extrudability (sec.) 23°C		$3\sim 5$
Nonvolatile (%)	93.9	

#### ◇ Cured properties (JIS K 6251 Dumbbell-3)

50% Tensile stress	(N/mm <sup>2</sup> )	0.30
Maximum tensile stress	(N/mm²)	1.75
Elongation at break	(%)	750
Hardness	(Shore A)	30

## ◇ Curability

Curing	Required curing time (Day) by apply thickness				
Rate	2mm	5mm	10mm	15mm	
5℃*50%RH	2	>6	-	-	
23℃*50%RH	1.5	2	6	-	
50℃*50%RH	0.5	1	3	6	

Ver. 240111







## ◇ Adhesive properties> Tensile adhesion (JIS A1439)

Cure condition	Test condition	50% Tensile stress (N/mm <sup>2</sup> )	Maximum tensile stress (N/mm <sup>2</sup> )	Elongation at break (%)	
After curing	<b>23</b> ℃	0.32	1.22	600	
After heating ( 80°C )	<b>23</b> °C	0.35	1.40	620	with primer P-50
After immersion in water	<b>23</b> °C	0.17	0.62	690	Substrate: Aluminum

## **RECOMMEND PRIMER**

Recommend substrates	commend substrates Product name	
Coated metal, concrete, ALC	SHARPIE Primer P50	Non yellowing aging

## PAINTABILITY

The table provided is a general reference. Differences may occur depending on the products, please test before use.

Classified	General	Adhesion	Non-stain	For water base, be aware of water
Single layer finish	Acrylic resin lithin	0	0	repellency.
Single layer limsh	Elastic lithin	0	0	Adhesion
	Acrylic silicone	0	$\bigcirc$	∘ : Good
Multi-layer finish	Elastic spray lithin (waterproof)	0	0	$\triangle$ : Normal × : Bad
Thick layer finish	Synthetic stucco	0	$\bigcirc$	
Water based paint		0	$\bigcirc$	Non-stain
Solvent based paint		0	$\bigcirc$	<ul> <li>: Good</li> </ul>
Oil ba	ased paint	×	×	$\triangle$ : Slight(not effected)

## USAGE AMOUNT

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

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

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

Data on porous surface (concrete). Non-porous surface usage at 50% of below data.

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

Ver. 240111

MS1-04S





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 accessories
- 5.Setup the masking tape
- 6. Apply primer(primer tack-off time : 30min/20°C)

#### **NOTICE**

• The surfaces to be bonded must be dry, free of oil, dust, grease, and other contaminants.

• NO operation when it rains or snows.

• NO application on the surface which contained

- ⑦.Load the sealant into a caulking gun
- 8.Apply
- 9.Use a spatula to finish the joint.
- 1. Remove the masking tape

くらし・化わる生活想造企業シャープ化学

- 1. Clear up around
- ①.Check the operation

volatile.

- · DO NOT operated too thin, or it will turn to white in a
- short-term.
- CAN NOT operated on asphalt.

## **ATTENTION**

- · Keep away from heat/sparks/static electricity/open flames/hot surfaces. No smoking.
- · Do not breathe dust/fume/gas/mist/vapors/spray.
- $\cdot$  Wear protective gloves/protective clothing/eye protection/face protection.
- · 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.

## 

●Sealant		
Sharpie Hybrid M1-NB	• • • •	320ml cartridge x 10 / carton
		*Available in 600ml sausage pack, 12 / carton
<ul> <li>Primer</li> </ul>		

SHARPIE primer P-50 · · · · 500g /can, 10 can / carton

★The data above, due to different materials and conditions of application which are beyond our knowledge and control we strongly recommend carrying out sufficient tests to ensure that our products are suitable for the intended.

#### Headquarter

〒 592-8352 12-1 Chikkohamaderanishi-machi, Nishi-ku,
 Sakai City, Osaka
 TEL: +81-72-268-0321 FAX: +81-72-268-0326

#### ■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

#### ■Global Center

 $\mp$  592-0001 3-44 Takasago, Takaishi City ,Osaka TEL: +81-72-268-0323 FAX: +81 -72-268-0326

#### Sakai Factory

 $\overline{\top}\,$  592-8352 12-1 Chikkohamaderanishi-machi, Nishi-ku, Sakai City, Osaka

TEL: +81-72-268-0322 FAX: +81-72-268-3119

#### ■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



Ver. 240111

Ρ3

