

# Product name Sharpie Seal M-2

High weather resistance. It is stable on many kinds of joints after a long period.

With specific primers, it can adhere many kinds of materials.

Better operating under a low temperature and shift along with the joints in a short period.

Because of using the color paste, it can be adjusted to any kind of colors.

Less contaminating to the surrounding. The adhesion depends on the primer.

## ■Advantages

- ◇ Excellent durability & Weatherability
- ◇ Multi-substrates application
- ◇ Stable adhesion with recommended primer
- ◇ Extensive using in high building structure
- ◇ Multicolor selections

## ■Use

- ◇ Joints of metal curtain curtain / wall panel
- ◇ Joints of pre-cast concrete curtain / wall panel
- ◇ Joints of stone-clad pre-cast concrete
- ◇ Joints of tile
- ◇ Joints of building well panel

## ■Characterization

Product name	Sharp Chemical M-2
JIS A 5758 qualified	F-25LM-9030 (MS-2) No CE0508023
Shape : base / Hardener / Color paste	Pasty / light yellow liquid / pasty
Mixing ratio	100 : 10 : 4.3

Base On JIS A 5758 & JIS A 1439

Slump (mm)	Longitudinal	5℃	0
		50℃	0
	Lateral	5℃	0
		50℃	0
Elastic Recovery(%)			93
Tensile Properties 【 M100 】 ( N/mm <sup>2</sup> )		23℃	0.3
		-20℃	0.3

Cohesion properties

at maintained extension	No failure
after compression heating/tension cooling	No failure
at maintained extension at Immersion in water	No failure

Tensile Properties

Curing Condition	Test condition	50% tensile stress (N/mm <sup>2</sup> )	Maximum tensile stress (N/mm <sup>2</sup> )	Elongation at break ( % )
After curing	23°C	0.14	0.52	770
After heating (80°C)	23°C	0.16	0.73	680
After immersion in water	23°C	0.14	0.44	740

With primer  
P-32

Substrate:  
Alumimun

Density	g/ml	1.31
Extrudability ( sec )	5°C	4
	23°C	2
Available time ( h ) <with seasonal selection>	5°C	5
	23°C	4
	35°C	2
Tack-free ( h )	23°C	6
Loss of volume ( % )		3.1
Durability ( 9030 )		Pass

## ■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	For waterbase , be aware of water repellency
Single layer finish	Acrylic resin lithin	○	△	Adhesion ○:good △:normal ×:bad
	Elastic lithin	○	△	
Multi-layer finish	Acrylic silicone	○	△	Non-stain ○:good(maybe sticky) △slight(but not effected)
	Elastic spray lithin (waterproof)	○	△	
Thick layer finish	Synthetic stucco	○	△	
Waterbase paint		○	△	
Solventbase paint		○	△	
Oilbase paint		×	×	

Do NOT applied on oilbase or phthalic oxidatively-polymerized paint

## ■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.
- Industrial use ONLY

## ■How to use

Please apply the product according to the following procedure

- |   |  |
|---|--|
| ① Pre-study and preparation                       | ⑧ Load the sealant into a caulking gun |
| ② Pre-check                                       | ⑨ Apply                                |
| ③ Seam/surface dust free and dried                | ⑩ Use a spatula to finish the joint.   |
| ④ Setup holder and accessories                    | ⑪ Remove the masking tape              |
| ⑤ Setup the masking tape                          | ⑫ Clear up around                      |
| ⑥ Apply primer (primer tack-off time: 30min/20°C) | ⑬ Check the operation                  |
| ⑦ Base / hardener / color paste mixing            |  |

## ■Sealant Operation Temperature Scope

The month of manufacture	Operating temperature	Available ( hr )		
		5°C	25°C	35°C
1, 2, 11, 12	5 ~ 20°C	4 ~ 6	2 ~ 4	
3, 4, 9, 10	10 ~ 30°C		2 ~ 4	
5, 6, 7, 8	20 ~ 35°C		3 ~ 5	1 ~ 2

## ■Stretch and Shear Rate by standard joints

	Stretch rate		Shear rate		
	M1	M2	M1	M2	
<b>Seal M-2</b> (Durability 9030)	20	30	30	60	M1: In temperature condition M2: Wind / Earthquake / Vibration

