

# Product name **SHARPIE Elastic Bond MS plus**

MSC1-08  
JAIA F☆☆☆☆

One component elastic adhesive, Moisture cure type, Modified silicone

Take the best balance between hardness, stress and elongation.

Stable for long, even cohere to different materials with different coefficient of thermal expansion.

## ■ Advantages

- ◇ Rapid cure type  
Shorten construction period
- ◇ Excellent for operation  
Simply fill and cohesion,  
Easily to operate!
- ◇ Stably cohesion  
Perfectly cohere to different materials  
Exp. metal to concrete.
- ◇ High performance after curing  
Great resistant to shocks or vibration

## ■ Use

- Adhesion of breakable materials  
Exp. stone panel, mirror, tile
- Cohesion with different materials  
even in different thermal expansion coefficient  
Exp. plastics with metal, tile with plastics, metal
- Adhesion of brittle materials  
Exp. plasterboard, calcium silicate board, ALC, some foam
- Cohesion Non flat substrate with some materials
- Adhesion parts at much Temperature variation

## ■ Characterization

Product name:	SHARPIE Elastic bond MS plus
Consistency:	Pasty
Main component:	Special Modified silicone polymer

Base On JIS A 5758 & JIS A 1439

Viscosity (Pa · s)	23°C	300 ~ 600
Density (g /ml )		1.40
Tack-free time (min.)	30°C	20
	23°C	35
	5°C	100
Nonvolatile (%)		96
Hardness (shore A)		45

### Cured property

Curing condition	After curing	After heating (80°C)	After immersion in water
Tensile strength (MPa)	2.00	2.90	1.05
Elongation at break (%)	400	300	600

Film 2.5mm  
Tensile speed :  
500mm/min.

### Tensile shear strength (JIS K6850)

Curing condition	Test condition	Maximum tensile stress (N/mm <sup>2</sup> )
After curing	23°C	1.94
After heating ( 80°C)	23°C	2.55
After immersion in water	23°C	1.04

Adhesion area : 25mm\*12.5mm  
Adhesive depth : 1mm  
NO primer  
Substrate : SUS304  
Tensile speed : 5mm/min.

## ■ Recommend primer

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



## ■Adhesion applicability

Substrate	Applicability	Note
Mild steel plate	Good	
Aluminium	Good	
SUS	Good	
Copper	Attention	Corrosion
Galvanized iron sheet	Good	
Glass	Attention	Weakness for UV
Tile	Good	
Marble	Good	Stain
Granite stone	Good	Stain
Calcium silicate board	Good	Better with P50
Plaster board	Good	
Slate	Good	Better with P50

Substrate	Applicability	Note
Acrylic plate	Attention	
ABS	Attention	
Rigid PVC	Attention	Solvent crack
FRP	Good	
Poly-carbonate	Attention	Solvent crack
PE	No	
PP	No	
Plywood	Good	
Teak wood	Good	
Japanese cypress	Good	
Mortar	Good	Better with P50

## ■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 volatile.
- Use primer for brittle materials.
- Use it like strings or comb pattern.
- NO operation all area coated on plastics or metal of No-gas permeability.
- Use it by depth of more than 1mm.
- CAN NOT operated on asphalt because of no-adhesion.
- CAN NOT operated on marble and glass because the application is out of considering.

## ■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

## ■Packaging

### ●Adhesive

SHARPIE Elastic Bond MS Plus . . . . 320ml cartridge 10 /box 2boxes/bale  
◇color : Light grey

### ●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 carrying 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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