

Product Name

**SHARPIE™ MIRAI SEAL**

- ✚ SHARPIE™ Mirai Seal is a one component moisture curing type modified silicone sealant.
- ✚ High modulus type compatible with joints of interiors and exteriors of general buildings, as well as locations around water such like washroom, kitchen and bathroom etc.
- ✚ Excellent weatherability, heat resistance and cold resistance.
- ✚ Tin Catalyst- Free formulation. Friendly to people and the environment in compliance with global environmental regulations.
- ✚ Great cost performance.

**■ Advantages**

- ◇ Excellent Durability & Weatherability  
*Applicable without paint or coating*
- ◇ No Stain Formulation  
*Hardly pick up dusts*
- ◇ Anti-mold.
- ◇ Great paintability.  
*Most of paint can be applied*
- ◇ Innoviated adhesion.
- ◇ 18 months long shelflife.

**■ Application**

- Joints of exterior wall panels/boards  
roof materials/ metal plates/siding.  
\*not applicable for ceramics siding
- Watertight and Airtight for interior joints
- Terminal sealing of waterproofing sheet
- Repair of cracks of mortar/concrete
- Sealing and bonding to parts with severe temperature changes.

**■ Technical Product Data****General Properties**

Product Name	Sharpie Hybrid Master
Consistency	Pasty
Shelflife	18 months
Viscosity(Pa · s)	300~600/23°C
Tack Free	60 mins
Application Temperature	5°C~35°C
Service Temperature	-30°C~90°C

**Curability**

Cure Rate	Required curing time (Day) by apply thickness			
	2mm	5mm	10mm	15mm
5°C*50%RH	2	Over 6	—	—
23°C*50%RH	1.5	5	8	—
50°C*50%RH	0.5	3	5	8

**Cured property after 23°C\*7days** \*Based on JIS A5758 or JIS A1439

Elastic Recovery (%)		75
Tensile Properties 【M60】 (N/mm <sup>2</sup> )	23°C	0.5
	-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 cooling		no failure
Cohesion properties at maintained extension at Immersion in water		no failure

**Adhesion to various substrates (non-primer)**

Substrates	Adhesiveness	Substrates	Adhesiveness
Aluminum	○	PS(Polyester)	○
stainless	○	PA(Polyamide)	○
Glass	○	PVC	○
FRP	○	PPO	○
PC(Polycarbonate)	○	PET	○

○ : Good adhesion. Please use the SHARPIE primer P-50 when strong adhesion is required.

**Paintability**

Classified	General	Adhesion	Non-stain
Single layer finish	Acrylic resin lithin	○	○
	Elastic lithin	○	○
Multi-layer finish	Acrylic silicone	○	○
	Elastic spray lithin (waterproof)	○	○
Thick layer finish	Synthetic stucco	○	○
Waterbase paint		○	○
Solventbase paint		○	△
Oilbase paint		×	×

**Usage amount** Length(m) of sealant operation per 320ml cartridge

D \ W	10mm	15mm	20mm	25mm	30mm
10mm	2.6	1.8	1.3		
15mm			0.9	0.7	0.6

Loss rate 30%  
W: width.  
D: depth

# SHARPIE

## 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.
- 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/vapours/spray.
- 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.

## COLOR

- 6 standard colors: White, Black, Grey, Beige, Ivory, Brown.
- 400 CUSTOMIZED COLORS available.

- ✓ Customized color sample please refer to Japan Paint Manufacturers Association 2019 K.
- ✓ Please contact the local sales for customized color quotation.

## PACKAGE



330ml Pouch pack



320ml Cartridge



600ml Sausage

★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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