Item Name

ALIPE

SHARPIE[™] DrySara®

MS1-60C

- **UrySara®** is a low modulus, non-bleed, super weatherability one-component modified silicone sealant.
- By using SharpChem's proprietary technology, improved the weatherability dramatically up to 2~3 times of conventional modified silicone, considerable 20 years of weather resistance.
- Low modulus type, yet less tackiness to prevent the surface from dirt.
- Excellent paintability, Non-bleed type, reduced water-based paint surface cracks occur at low temperatures Maintains the joints aesthetic appearance in long term, with or without painting.
- Good durability, JIS 8020 Durability test qualified product.
- Human Environmental friendly. A metal-free formulation that does not contain tin catalyst.

MS1-60C

APPLICATIONS

- Joints of exterior wall panels/boards/ roof materials/ metal plates/ceramic siding.
- Watertight and Airtight for interior joints
- Repair of cracks of mortar/concrete

TECHNICAL PRODUCT DATA

♦ General Properties

Item name	SHARPIE™ DrySara®
Item code	MS1-60C
Consistency	Paste
Shelf-life	18 Months
Viscosity(Pa•s)	250~550Pa∙s
Application Temperature	5°C~35°C
Service Temperature	−20°C~90°C

Density(g/ml)		1.38
Skin-form time (min)	23 °C	60
Extrudability (sec.)	23 °C	3~5
Nonvolatile (%)		6.5
Durability (JIS 8020)		Pass

Sealing and bonding to parts with severe

Terminal sealing of waterproofing sheet.

Joints between outer wall and sash.

temperature changes.

Base on JIS A 5758 or JISA 1439

Curing Properties

Condition	Thickness of skin forming / Days				
Condition	2mm	5mm	10mm	15mm	
5°C*50%RH	2	>6	-	-	
23°C*50%RH	1.5	3	7	-	
50℃*50%RH	0.5	1	4	7	

♦ Cured Properties (JIS K 6251 Dumbbel-3)

50% Tensile stress	(N/mm ²)	0.14
Maximum tensile stress	(N/mm²)	0.90
Elongation at break	(%)	650
Hardness	(Shore A)	15



Slump (mm)		5℃	0
	Vertical	50 °C	0
		5 ℃	0
	Horizontal	50 °C	0
Elastic	30		

Cohesion properties at maintained extension	No abnormal
Cohesion properties after compression heating/tension cooling	No abnormal
Cohesion properties at maintained extension at Immersion in water	No abnormal

♦ Tensile Properties (JIS A1439)

	Test condition	50% Tensile stress (N/mm2)	Maximum tensile stress (N/mm2)	Maximum elongation (%)	Elongation at break (%)	
After curing	23 °C	0.15	0.58	519	562	with primer P-50
After heating (80°C)	23 °C	0.16	0.63	626	688	Substrate: Ceramic
After immersion in water	23 °C	0.12	0.30	296	332	siding board

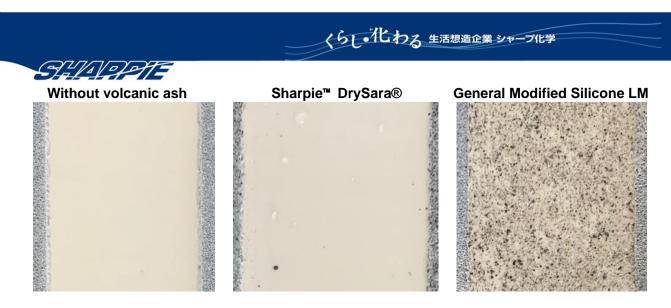
♦ Paintability

*General reference. Due to primer or paint difference, a pre-confirmation test is recommended.

Classified	General paint name	Adhesion	Non-stain]
Single layer finish	Acrylic resin	0	Ø	
	Elastic Resin	0	O	
Multi-layer finish	Silica tile	0	O	
	Elastic spray tile (waterproofing)	0	O	
Thick layer finish	Synthetic stucco	0	Ø	
Water-based paint *Be aware of water repellency		0	Ô	•Adhesion:
Solvent-based paint		0	O	•:Good, ∆:normal ×:bad
• Hardly dry when applied with oil-based or phthalic acid oxidative polymerization type paint.		0	\bigtriangleup	\odot : Excellent, Δ : Slightly contaminated, but fine in practical x : Stain/bleed.

♦ Surface-Tackiness Test

•Test Method: Appy sealant with a thickness of 3 mm. Cure at 23 ° C and 50% RH for 2 days. Sprinkle volcanic ash on the sealant, then remove the amount of volcanic ash that falls under its own weight. Put 100 hours in a xenon weather meter and spray with water. Observe the condition for the result.



♦ Weatherability Test

• Test Method: Perform the weatherability promotion test with a Dew panel optical control weather meter (wavelength: 313 nm, cycle conditions: irradiation 48 minutes + irradiation with water spray 12 minutes). Sample thickness: 3 mm (cured at 23 ° C for 7 days or more)

• Evaluation by cracks.

Level 4: Very shallow hair-like cracks

Level 2: Deep cracks (about 1 ~ 2mm)



Level 4



Level 3



Level 2

Item name	Unit	Unit to Level 4	Unit to Level 3	Unit to Level 2
DrySara	Hour	2,800h	3,300h	4,000h
Modified Silicone NB-LM	Hour	800h	1,200h	1,800h

150 Hours≒1 year of outdoor exposure

RECOMMENDED PRIMER

Substrates	Item name	Note
Ceramic siding, concrete Aluminum*, Steel*	Sharpie Primer P50	No weather-resistant yellowing High viscosity

* For metal surfaces such as aluminum and steel, remove excess drops from the brush before applying Primer P-50 so that it is not thickly applied.

HOW TO USE

- 1. Pre-study and preparation
- 2. Pre-check
- 3. Seam/surface dust free and dried
- 4. Setup holder and nozzle
- 5. Setup the masking tape
- 6. Apply primer (primer tack-offtime:30min/20°C)
- 7. Load the sealant into a caulking gun
- 8. Apply the sealant
- 9. Use a spatula to finish the joint
- 10. Remove the masking tape

Level 3: Shallow cracks that can be observed with naked eyes

Level 1: Cracks that reach the bottom (about 2 ~ 3mm)

- 11. Clear up around
- 12. Check the operation





USAGE AMOUNT

The 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

Lose rate: 20% W: Joint Width D: Joint Depth

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.

CAUTION

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

PACKAGING & COLOR SELECTION

The length(m) of primer operation per 50g can.

d W	10mm	15mm	20mm	25mm	30mm
10mm	175	175	175		
15mm			116	116	116

Lose rate: 30% W: Joint Width D: Joint Depth

*non-porous surface(Metal,/glass), convert the amount of porous surface (mortar) usage to 1/2 m of a non-porous surface.

- CAN NOT be operated on asphalt.
- Depending on the storage condition and period, it may turn yellow in the container, but it does not affect the performance.

IF skin or eye contact occurs immediately flush with water for 15 minutes/ 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

↓ SHARPIE™ DrySara® ····	320ml Cartridge x 10pcs per case 600ml Sausage x 12 pcs per case	
♣ COLOR SELECTION ····	Refer to Sharpie Best 70 color chart	
White (BS-01)	Black (BS-07)	Hiyori Beige (SD-10)
SD Gray (BS-02)	Gray (ST-01)	Oyster White (SD-11)
Light Gray (BS-03)	Amber (ST-07)	SK175 (PT-03)
Ivory (BS-04)	Pale Ivory (SD-02)	NP152 (PT-11)
Beige (BS-05)	European Gray (SD-06)	
Dark Brown (BS-06)	Gray G (SD-09)	
The data above, due to different materials and conditions of application which are beyond our knowledge and control we strongly recommend carring out		

★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.

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