

CHIVAVOJETE

One component moisture cure type Silicone Sealant

MSC1-13

Product name SHARPIE Peelable Firefly

SHARPIE Firefly Caulk including phosphorescent pigment is suitable for evacuation guidance because of the phosphorescence in case of blackout.

Before curing, it is a pasty material, therefore it is cured as many shapes.

Easy to detach but with good adhesion

Peelable from metal, plastics, glass and so on.

JSIAF☆☆☆☆

Advantages

- Phosphorescent function. Immediately produce light while blackout!
- Keep phosphorescence for long. Apply it thickly, luminated better.
- ♦ Pasty in the first stage, Shaped as wish.
- ♦ Peelable
 - Peelable from most substrates(after curing) Change your mind any time
- Good elastic property
 Excellent elastic rubber (after curing)
- ♦ Non slip

Application

- ·Evacuation guidance-cum-Sealant for buildings
- ·Guidance for corridors and stairs while lights-out
- · Guidance of the light switch plate
- ·healing light at light-out or bedtime
- ·Design display of the use of black lights.
- Anti-slip
- Temporary fixing
- ·Adhesion of lightweight parts

Characterization

General

Product name:	SHARPIE Peelable firefly
Product code	MSC1-13
Main component:	Special MS polymer
Class(JIS)	_
Consistency:	Paste
Color	Luminescence
Storage	12Months
Viscosity(Pa · s)	300; (23°C)
Application temperature	5°C∼35°C
Service temperature	−20°C~90°C
Paintability	Possible

· Curing properties

Curing	Thickness of skin forming						
condition	2mm	5mm	10mm	15mm			
5°C*50%RH	1d	2d					
23°C*50%RH	0.5d	1d		_			
50°C*50%RH	0.5d	0.5~1d	_	_			

Cured properties(JIS K 6251 Dumbbell-3)

50%tensile stress	(N/mm²)	0.3
Maximum tensile stress	(N/mm ²)	1.8
Elongation at break	(%)	370
Hardness	(shore A)	30

Base on JIS A 5758or JIS A 1439

Density (g /ml)	1.08	
Tack-free time (min.)	23°C	30min
Extrudability (sec)	23°C	_
Nonvolatile (%)		98





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Tensile properties

Teriolic properties				_
curing condition	Test condition	Maximum tensile stress (N/mm²)	Elongation at break (%)	
After curing	23°C	0.20	40	
After heating (80°C)	23°C	0.25	50	
After immersion in water	23°C	0.07	20	with No pri Substrate

with No primer Substrate : aluminum

OShear Strength (JIS K6850)

Curing condition		Thickness of application(mm)	Maximum tensile stress (N/mm²)
After curing	23°C	Press (<0.5)	0.23
After Curing	23°C	1.0	0.08

被着体;SUS304、

プライマーなし

Afterglow brightness

<u> </u>												
Time after light exposure (min.)	1	5	10	20	30	60	90	120	180	360	600	
Afterglow brightness	649	285	172	88	56	27	15	12	7	3	2	ur m

unit: mcd/m2

Test condition

1. Specimen

(before the test, the protection from light 24hrs.)

sheet size: 75*75*3mm standard: 7days curing. Artificial light exposure: 600h treatment

(weathermeter using 313nm peak wavelength)

2. Conditions

Equipment: LS-100 Luminance Meter, KONICA-MINOLTA

Temperature/humidity : 25°C、60%

 $\begin{array}{lll} \mbox{Light source: D65} & \mbox{Excitation light: 200lx} \\ \mbox{Irradiation time: 20min.} & \mbox{Measuring area} & \mbox{$\phi 1.5 mm$} \\ \mbox{Measuring angle: } 90^{\circ} & \mbox{Focusing distance: } 0.2m \end{array}$

<reference>

1)numerical value and feeling of brightness

Brightness (mcd/m2)	Feeling brightness in the dark	Observable	Unobservable
More than 5	Very blight! able to perceive by sight!	10/10men	0/10men
3	So blight, able to perceive the contour	10/10men	0/10men
2	Faded bright, hard to perceive by sight	10/10men	0/10men
Less than 1	Hard to perceive bright itself!	3/10men	7/10men

2)JIS Z 9107-2008 Safety mark

Brightness (unit: mcd/m2)

Excitation light: irradiation of 20min. with 2001x

Sub class	After 2min.	After 10min.	After 20min.	After 30min.	After 60min.
JA	210	50	24	15	7
JB	440	105	50	31	15
JC	880	210	100	62	30
JD	1760	420	200	124	60



Substrate to be applied

☆ Good detachable or peelable

ਕ Good detachable of peelable Aluminum, steal, SUS, Hard PVC, Soft PVC, PMMA, ABS, FRP, PC, PE, PP, EDM rubber						
Maybe hard to be peeled from, varied by surface conditions						
Maybe hard to be peeled from, varied by surface conditions / Maybe detach together with coating layer						
After detach, stain may be visible to the components						
After detach, stain may be visible to the components						
Maybe hard to be peeled from, varied by surface conditions						
After detach, stain may be visible to the components						
After detach, stain may be visible to the components						
After detach, stain may be visible to the components						
Maybe hard to be peeled from, varied by surface conditions / Maybe detach together with coating layer						
Maybe hard to be peeled from, varied by surface conditions / Maybe detach together with coating or wall cloth itself						
Maybe hard to be peeled from, varied by surface conditions / Maybe detach together with coating or wall paper itself						
Not peelable						

■Usage amount

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

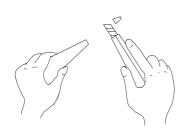
D W	10mm	15mm	20mm	25mm	30mm	Loss rate 20%
10mm	2.6	1.8	1.3			W: width.
15mm			0.9	0.7	0.6	D: depth.

■How to use

Please operate the product according to following procedure

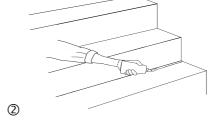
- ①.Pre-study and preparation
- 2.Pre-check
- 3.Seam/surface dust free and dried
- 4). Setup holder and accessaries
- ⑤.Setup the masking tape

- 6.Apply
- ①.Use a spatula to finish the joint.
- 8. Remove the masking tape
- ①.Check the operation











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Notice

- •The surfaces to be applied must be dry, free of oil, dust, grease and other contaminants.
- •Do not apply when it rains or snows.
- •Do not apply on the surface with volatile compounds.
- •CAN NOT detach before curing completely
- •Can not cure completely if the substrates both sides are glass, plastic or metal which has no gas permeability
- •If applied with less than 1mm thickness, non slip capability increases.
- •CAN NOT be detached from some surfaces, please check by yourself before using.
- •Do not apply where need the high adhesion strength
- •With primer P50 CAN NOT be detached.

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
- · See SDS for detailed description.

Packaging

Adhesive&Sealants

SHARPIE Peelable firefly • • • • 180ml Pouch×10/Box ♦ color : luminescence







★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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