

Product Name

ELASTIC BOND MEGA HARD 1

MSC1-06
JAIA F☆☆☆☆

Mega Hard One is a one-component modified silicone-based elastic adhesive and repair material. With its unique formulation, this product combines high strength and hardness with elasticity. It demonstrates high hardness and strength while exhibiting moderate elongation, making it suitable for adhesion to a wide range of substrates such as concrete, metal, and wood. Ideal for use in joint filling in floors to prevent heel punctures.

ADVANTAGES

- ◇ Impact Resistance
Forms an elastic, peel-resistant adhesive layer due to its unique formulation, which balances hardness and brittleness.
- ◇ Fast Curing
Quick curing shortens the construction period.
- ◇ Stable Adhesion
Good adhesion with different thermal expansion rates. designated primer enhances adhesion.

APPLICATION

- ✓ Floor joint filling
- ✓ Prevention of heel punctures
- ✓ Repair of cracks in concrete floors of warehouses and factories
- ✓ Adhesion reinforcement of deteriorated concrete floors
- ✓ Prevention of tampering with joints

TECHNICAL PRODUCT DATA

Product Name	Elastic Bond Mega Hard One
Product Code	MSC1-06
Appearance	Pasty
Main Component	Special Modified silicone polymer
Color	Lt. Grey
Shelf Life	18 Months
Viscosity (Pa·s)	400~600 / 23°C
Application Temperature	5 ~ 35°C
Service Temperature	-40~90°C
Paintability	Good

BASED ON JIS A 5758 & JIS A 1439

Density (g / ml)		1.40
Tack-Free Time (min.)	23°C	20
Nonvolatile (%)		5

CURABILITY

Curing Rate	Required curing time (Day) by apply thickness			
	2mm	5mm	10mm	15mm
5°C *50%RH	2	>6	—	—
23°C *50%RH	1.5	2	6	—
35°C *50%RH	0.5	1	3	6

CURED PROPERTIES (JIS K 6251 DUMBELL-3)

50% Tensile stress	(N/mm ²)	1.00
Maximum tensile stress	(N/mm ²)	2.50
Elongation at break	(%)	300
Hardness	(Shore A)	55



ADHESIVE PROPERTIES> TENSILE ADHESION (JIS A1439)

Cure condition	Test condition	50% Tensile stress (N/mm ²)	Maximum tensile stress (N/mm ²)	Elongation at break (%)
After curing	23°C	1.10	1.70	180
After heating (80°C)	23°C	1.10	2.00	170
After immersion in water	23°C	0.75	1.00	200

with primer P-50
Substrate: motor

CHEMICAL RESISTANCE

Reagent	Evaluation	Reagent	Evaluation
5% Acetic Acid	○	5% Sodium Hypochlorite	○
5% Hydrochloric Acid	○	Ethanol	×
10% Sodium Hydroxide	○	Ethyl Acetate	×
28% Ammonia Water	○	Toluene	×
30% Salt Water	○	Lubricating Oil	○
30% Hydrogen Peroxide	×	Kerosene	○

PAINTABILITY

The table provided is a general reference. Differences may occur depending on the products, please test before use.

Classified	General	Adhesion	Non-stain	
Single layer finish	Acrylic resin spray	○	△	For water base, be aware of water repellency. Adhesion: The evaluation of Adhesion to finishing Coatings ○ : Good △ : Normal × : Bad Non-stain: The evaluation of Softening, Discoloration, and Other Contamination of Applied Finishing Coatings ○ : Good △ : Slight (not effected)
	Elastic spray	○	△	
Multi-layer finish	Acrylic silicone	○	△	
	Elastic spray tile (waterproof)	○	△	
Thick layer finish	Synthetic stucco	○	△	
Water based paint		○	△	
Solvent based paint		○	△	
Oil based paint		×	×	

RECOMMEND PRIMER

Recommend substrates	Product name	Note
Coated metal / Concrete	SHARPIE Primer P50	Non yellowing (aging)

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

Loss rate 20%
W: width.
D: depth.

The length(m) of primer operation per 500g can

D \ W	10mm	15mm	20mm	25mm	30mm
	10mm	175	175	175	
15mm			116	116	116

Loss rate 30% W: width. D: depth.
Data on porous surface (concrete).
Non-porous surface usage at 50% of above data.



HOW TO USE

Please operate the product according to following procedure

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

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/vapors/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.

■PACKAGING

●Sealant

Sharpie ELASTIC BOND MEGA HARD ONE 320ml cartridge x 10 / carton

*Available in 600ml sausage pack, 12 / carton

●Primer

SHARPIE primer P-50 500g /can, 10 can / carton

★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 to ensure that our products are suitable for the intended.

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