

Product name **MSC1-07 SHARPIE Elastic Bond P-fix**

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JAIA 4VOC

- ✚ Developed with the expectation of improving the durability of bonding between various substrates.
- ✚ Reacts with moisture in the air to form an elastic sealing adhesive layer and achieves a wide range of adhesion.
- ✚ SharChem original formulation, excellent workability at low temperatures, does not cause stringiness.
- ✚ Do not contain solvents or isocyanates, human-body & environment friendly.
- ✚ Elastic adhesive layer relaxes the strain caused by the thermal expansion coefficient of dissimilar materials stress, able to achieve long-term stable adhesion.

Advantages

- ◇ Fast curing, shorten construction period.
- ◇ Excellent workability, good thixotropic, non-sagging.
- ◇ Environment & human body friendly.
- ◇ Strong adhesive.
 - Adhere to various substrates
 - FRP, Metal, Plasterboard,
 - Calcium silicate board, Wood
 - etc.
 - *Improve adhesion with recommended primer.

Use

- Adhesion of materials that are easily damaged.
 - Thin stone materials, mirrors, tiles.
- Brittle material such as gypsum board.
 - Calcium silicate board, ALC board, foams.
- Adhesion of materials with different thermal expansion.
 - Combination of plastic, metal, and glass, etc.
- Filling adhesion to uneven substrates and surface materials.
- Seal adhesion to areas subject to temperature changes.

Characterization

Product name	SHARPIE Elastic bond P-Fix	
Consistency	Pasty	
Main Component	Special Modified silicone polymer	
Shelf-life	18 months	
Application Temperature	5°C ~ 35°C	
Service Temperature	-30°C ~ 90°C	



Based on JIS A 5758 & JIS A 1439

Viscosity (Pa · s)	23°C	300~600	- Cured property	Curing condition	Result
Density (g/ml)	1.40				
	35°C	10			
	23°C	20			
Skin-form time(min.)	5°C	50	Tensile strength (MPa)	1.40	
	98		Elongation at break (%)	150	
	42				

Film 2.5mm
Tensile speed:
500mm/min.

■ Adhesion Properties

◎ Adhesion between melamine flame retardant decorative panels for interior use and various substrates (shear tensile adhesive strength)

SUBSTRATE	AFTER CURING 23°C 7 DAYS	AFTER IMMERSION IN WATER FOR 7 DAYS	RESULT	unit : N/mm ² Adhesion area : 25mm*12.5mm Adhesive depth : 1mm Non primer Tensile speed : 5mm/min.
Melamine board / plywood	0.25	0.73	Cohesion failure	
Melamine/calcium silicate board	0.20	0.62	Cohesion failure	
Melamine board / mortar	0.97	0.43	Cohesion failure	
PVC panel / FRP	0.97	0.69	Cohesion failure	

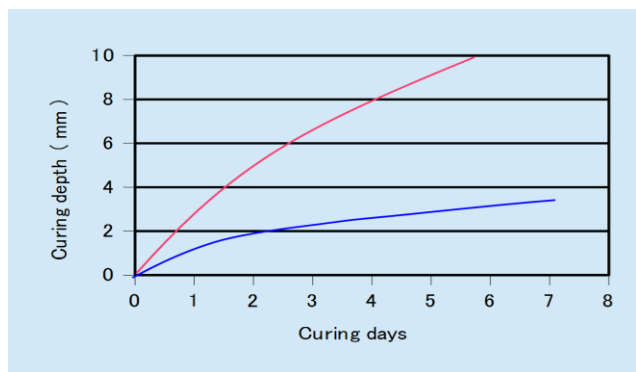
◎ Tensile shear strength

SUBSTRATE	AFTER CURING 23°C 7DAYS	AFTER IMMERSION IN WATER FOR 7 DAYS	RESULT	unit : N/mm ² Adhesion area : 25mm*12.5mm Adhesive depth : 1mm Non primer Tensile speed : 5mm/min.
SUS / SUS	0.83	0.45	Cohesion failure	
Plywood / Plywood	0.95	0.55	Cohesion failure	
Slate / Slate	0.85	0.50	Material failure	
Aluminium / Aluminium	0.80	0.63	Cohesion failure	
Poly-carbonate /P-olycarbonate	0.43	0.35	Partial Adhesion failure	
ABS / ABS	0.46	0.37	Partial Adhesion failure	
Rigid PVC / Rigid PVC	0.81	0.52	Cohesion failure	
FRP / FRP	0.86	0.62	Cohesion failure	
Acrylic plate / Acrylic plate	0.31	0.23	Adhesion failure	

◎ Peel strength on T type

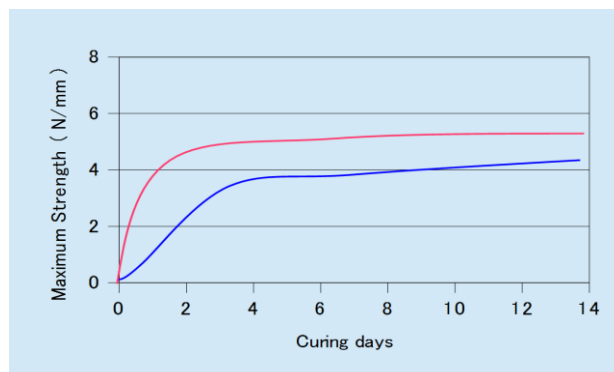
Substrate	Curing condition	Maximum strength	fracture modes	unit : N/mm ² Adhesion area : 50mm*12.5mm Adhesive depth : 1mm With no primer Tensile speed : 200mm/min.
Aluminium/ Aluminium	After curing 23°C*7days	5.3	Cohesion failure	
	After immersion in water 23°C*7days	4.0	Cohesion failure	

<Curing rate>



After operation of depth of 10mm at 23°C/5 days, curing depth is measured at every predetermined time.

<Initial adhesive strength>



Every predetermined time, Peel strength T type Adhesion area: 50mm*12.5mm Adhesive depth: 1mm With no primer Tensile speed : 200mm/min.

■ Recommend primer

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

■ 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.

★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 process and applications. Except for willful acts any liability based on such recommendations, or any oral advice is hereby expressly excluded.



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