

Product Name SHARPIE Elastic Bond TILE GRIP

Product code: MEC1-02

One component and Moisture cure type elastic adhesive
 Hybrid type Modified silicone with Epoxy resin
 Widely cohere to most materials, specially stone and ceramic tile
 Cohere to different materials with different thermal expansion coefficient
 Pass for JAIA F☆☆☆☆ / 4VOC standard and JIS A5557, JIS A5548 equivalent

■ Advantage

- ◇ One component type
 - ・ Unnecessary mixing or measuring
 - ・ Low toxic and Smell less (compared with 2K epoxy resin)
- ◇ Elastic adhesive to multi substances
 - ・ Relaxation of stress by thermal deformation
 - ・ Apply to different thermal expansion coefficient
(Such as cohere tile to concrete)
- ◇ User-friendly
 - ・ Pass for F☆☆☆☆ and 4VOC standard
(by Japanese Adhesive Industry Association)
- ◇ High performance
 - ・ JIS A5557 (Organic adhesives for exterior tile finishing)
 - ・ JIS A5548 (Organic adhesives for ceramic tile)

■ Application

- ・ Interior and exterior
- ・ Adhesion of stone/tile to mortar or wall panel
- ・ Fix breakable materials by shocks or vibration
- ・ No application for floor tile
- ・ Adhesion parts at different temperature
- ・ Adhesion of brittle materials
—plasterboard, calcium silicate board, ALC, some foam

■ Technical Product Data

| Product Name SHARPIE Elastic Bond Tile Grip | | | Adhesion applicability | | | |
|---------------------------------------------|---------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|-------------------------|
| Consistency | Pasty | | Substrate | Applicability | substrate | Applicability |
| Colour | Light grey | | granite ^{※1} | good | Aluminum ^{※3} | good |
| Main component | Modified silicone / Epoxy resin | | marble ^{※1} | good | PS foam | good ^{※4} |
| | | | porcelain tile | good | PVC ^{※3} | attention ^{※5} |
| Viscosity (Pa·s) | 23 °C | 700 | nonvitreous tile | good | FRP ^{※3} | good |
| Density (g/ml) | 1.48 | | mortar | good | ABS ^{※3, ※5} | good |
| Nonvolatile (%) | 110°C*3hr | 97 | glass ^{※2, ※3} | good | PC ^{※3} | attention ^{※5} |
| Tack-free time (hr) | 23°C | 7.5 | plywood | good | PP, PE | No |
| | 5°C | 24 | ^{※1} stain; ^{※2} weakness for UV; ^{※3} with porous material; ^{※4} break of substrate; ^{※5} solvent crack; | | | |
| Cure Rate | 23°C, 50%RH | approx.4~5days | | | | |

JIS A5557 (Organic adhesives for exterior tile finishing)

Cured property

| Dumbbell №5 (JIS K6251); thickness : 2mm ; after 23°C , 4weeks cured ; | | at 23 °C | at 80 °C | at -20 °C | Immersion in alkaline hot water, (60°C , 168hr) | Heat-aging, (80°C , 336hr) |
|--------------------------------------------------------------------------------|------|----------|----------|-----------|---------------------------------------------------------|---------------------------------|
| Tensile strength (N/mm ²) | data | 1.20 | 0.95 | 1.90 | 1.40 | 1.40 |
| | spec | 0.6≤ | 0.6≤ | 0.6≤ | 0.4≤ | 0.4≤ |
| Elongation at break (%) | data | 75 | 65 | 100 | 40 | 65 |
| | spec | 35≤ | 35≤ | 35≤ | 25≤ | 25≤ |

Tensile strength test

| porcelain tile (45*45mm) with mortar (70*70*20mm) | Tensile strength (N/mm ²) | | CF (%) | |
|---------------------------------------------------------------------------------------|-------------------------------------------|-------|----------|------|
| | data | spec | data | spec |
| standard curing (23°C * 672hr) | 1.20 | 0.6 ≤ | 100 | 75 ≤ |
| low temperature curing (5°C * 672hr) | 1.00 | 0.4 ≤ | 100 | 50 ≤ |
| immersion in alkali hot water (60°C * 168hr) after standard curing | 1.60 | 0.4 ≤ | 100 | 50 ≤ |
| freeze (-20°C * 2hr) thawing (20°C in water * 1hr) 200cycle after standard curing | 1.45 | 0.4 ≤ | 100 | 50 ≤ |
| heat-aging (80°C * 336hr) after standard curing | 2.30 | 0.4 ≤ | 100 | 50 ≤ |

■ Notice

- The surfaces to be bonded must be free of oil, dust, grease and other contaminants.
- NO operation when it rains or snows.
- CAN NOT operated on asphalt because of no-adhesion.
- NO application on the surface which contained volatile.
- NO operation when it is cold (under 5°C), curing time is very long.
- Use it like strings or comb pattern for width area adhesion
- Use it as more than 1mm thickness.
- At phreatic surface possible to operate.
If the water is wiped off a little.

■ How to use

Please operate the product according to below procedure

- 1). Pre-study and preparation
- 2). Substrate surface dust free and dried
- 3). Setup the masking tape
- 4). Load Tile Grip into a caulking gun
- 5). Push out Tile Grip then Use a spatula to be smooth on the substrate. Thickness should be 3~6mm.
- 6). Make comb pattern by using combing trowel
- 7). Immediately The material should be pressed throughly on the combed-shaped Tile Grip not more than 30min.
- 8). Remove the masking tape
- 9). clear up around
- 10). check the operation
- 11). For moving the material, maybe temporarily attach is necessary.

■ Attention

- Do not breathe dust/fume/gas/mist/vapours/spray.
- No smoking. Keep away from heat/sparks/static electricity/open flames/hot surfaces.
- Wear protective glasses/gloves/protective clothing/face protection.
- Avoid release to the environment.
- IF SWALLOWED: Rinse mouth.
- Keep out of reach of children.
- Storage in a dark cold place. Keep away from sunshine.
- 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.
- Construction and Industrial use ONLY
- Refer to the SDS for detailed description.

■ Packaging

- Sealant 320ml cartridge 5/case ◇ color : Light Grey
- Primer P-50 500g, 150g/can



★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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