

Technical Data Sheet

JB-SILVER-ADH

Multi Purpose Tile Adhesive

1. DESCRIPTION

JengaBond® JB-SILVER-ADH is a grey, polymer modified, cement-based tile adhesive engineered for fixing porous clay and ceramic tiles of small format on walls and floors in interior dry situations on cement-based backgrounds.

2. STANDARDS COMPLIANCE

- **IS 15477: 2019:** Type 1T ("Adhesives for use with Ceramic, Mosaic and Stone Tiles")
- **EN 12004: 2017:** Class C1T (Normal cementitious adhesive with slip resistance)

3. KEY FEATURES & ADVANTAGES

- **Polymer Modified:** Pre-blended polymer additives ensuring strong bond to masonry and cement bases.
- **Easy Mixing & Application:** Smooth troweling consistency, low slump, and easy on-site workability.
- **Working Time:** Extended working time and adequate open time for precise alignment.
- **Cementitious Backgrounds:** Reliable adhesion to interior cement sand screeds and plasters.
- **Latex Compatible:** Enhanced flexibility and bond strength when mixed with Jenga latex bonding additive.

4. SUITABLE SUBSTRATES

- Cement-sand screed (cured ≥ 3 weeks)
- Cement-sand plaster / render (cured ≥ 2 weeks)
- Concrete walls & floors (cured ≥ 4 weeks)

5. TECHNICAL SPECIFICATIONS & PERFORMANCE

Physical Properties (@ 27 $\pm$ 2°C)

Property	Specification / Value
Bed Thickness	Up to 6 mm (up to 12 mm in limited areas)
Pot Life	1.5 hours
Setting Time	24 hours
Temperature Resistance	-30°C to +150°C

VOC Content

0.84 g/L (Eco-friendly / Low VOC)

Performance Properties as per IS 15477: 2019 (@ 27 ± 2°C)

Property with Test Method	Min. Requirements (Type 1T)	Typical Result
Tensile Adhesion Strength – Dry (Annex A)	≥ 0.50 N/mm ²	> 0.80 N/mm²
Shear Adhesion Strength – Dry (Annex B)	≥ 1.00 N/mm ²	> 1.10 N/mm²
Open Time (Annex C)	As per Manufacturer	10 minutes
Adjustment Time (Annex D)	As per Manufacturer	5 minutes
Slip Resistance (T) (Annex E)	≤ 0.50 mm	0.40 mm

6. COVERAGE ESTIMATES (PER 25 KG BAG)

Coverage will depend on the nature and flatness of the surface, tile size, and method of application (@ 45° trowel angle). Ensure all surfaces are smooth, plumb, level, and free of defects.

Square Notch Trowel Size	Coverage per 25 kg Bag (@ 45° Angle)
6 mm × 6 mm	84 – 89 sq.ft (7.8 – 8.3 m ²)
8 mm × 8 mm	63 – 68 sq.ft (5.9 – 6.3 m ²)
12 mm × 12 mm	43 – 45 sq.ft (4.0 – 4.2 m ²)

7. APPLICATION INSTRUCTIONS

A. Substrate Preparation

- **General:** The base must be sufficiently flat, dry, structurally sound, and clean from dust, grease, oil, and loose materials.
- **Curing Times:** Cement-sand screeds must cure for at least 3 weeks; cement plaster/renderers must cure for at least 2 weeks.

B. Mixing Ratios & Instructions (25 kg Bag)

Add JB-SILVER-ADH gradually to clean water in a clean container. Mix thoroughly with a slow-speed stirrer until a homogeneous, lump-free mortar is achieved. Allow the mix to slake/polymerise for 2 to 5 minutes, then remix for 30 seconds before use.

Mixing Proportions (25 kg): • 25 kg Bag Water Content: 5.25 to 6.0 Litres clean water
 • With Latex Additive (25 kg Bag): 4.0 to 4.75 Litres water + 1.25 Litres Jenga Latex Additive
 • Volume Ratio: Approx. 1 : 3 (Water : Powder) | Pot Life: 1.5 hours @ 27°C
 *Do not add additional water after slaking.



C. Application Procedure

1. Spread only enough adhesive that can be tiled within the open time of the adhesive (approx. 10 mins).
2. Apply adhesive with the flat side of the trowel to key into the substrate, then comb through with a suitably sized square-notched trowel.
3. Press tiles firmly into the wet ribbed bed with a slight twisting and sliding motion to achieve solid bed fixing.
4. Check periodically that full contact is maintained on the back of each tile.
5. If adhesive ribs form a skin, scrape off and apply fresh adhesive.
6. Leave adequate joints between tiles using spacers. Clean surplus adhesive from tile faces and joints before setting.

8. APPLICATION NOTES, SPACERS & GROUTING

- **Environmental Conditions:** Do not use in damp conditions or when temperature is below 5°C.
- **Movement Joints:** For large span tiling works, leave movement joints every 3 m interval and fill with flexible sealant per BS 5385.
- **Spacers:** Use tile spacers (minimum 2 mm) for uniform joint widths; remove spacers before grouting.
- **Grouting:** Grouting should be carried out after 24 hours. Use JengaBond® JB-Classic-Grout for standard applications. For areas with hygiene and chemical resistance requirements, use JengaBond® JB-EP-GROUT3K or JB-Epoxy-ADH.

9. PACKAGING, STORAGE, SAFETY & DISCLAIMER

- **Storage & Shelf Life:** 25 kg moisture-proof bags. Shelf life is 12 months from manufacturing date when stored unopened in dry, shaded conditions.
- **Cleaning:** Clean tools and containers with clean water immediately while fresh. Hardened adhesive must be removed mechanically.
- **Health & Safety:** Contains Portland cement. Alkaline when wet. Avoid skin and eye contact. Wear gloves, safety eyewear, and protective clothing. In case of eye contact, rinse immediately with clean water and seek medical advice. Keep out of reach of children. Refer to SDS.
- **Warranty & Disclaimer:** BGSB Construction Products Ltd warrants that its products are free from manufacturing defects. Technical data are based on laboratory testing and site experience, given in good faith. BGSB accepts no liability for loss or damage arising from incorrect use or site conditions.