



HIPPO BOND

— Tile & Stone Solutions —

H-4 Ultra Fix Data Sheet

Description

- Ultra Fix H-4 is a polymer-modified, cement-based, high-performance, high-strength, high-quality tile adhesive developed to fix large-sized tiles/slabs of granite, marble, natural stones, glass mosaic tiles, and thin tiles. It is suitable for both internal and external applications and is engineered for thin bed use in wall and floor tile fixing applications.

Specification

- Type: 3 C2TE S1 (based on IS 15477 AND EN 1348 standards).

Features & Benefits

- No shrinkage
- Excellent bond strength
- Nil wastage
- Single component – no mixing hassle
- High slip resistance
- Easy to spread
- No curing required
- Consistent quality
- Suitable for tile-on-tile applications
- Ideal for interior and exterior use
- Perfect for fixing natural stones, vitrified tiles, and ceramic tiles
- High polymer modified
- Recommended for large format tiles



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Areas of Application

- Ultra Fix H-4 can be used for both internal & external, thin bed wall & floor applications. It's recommended for fixing large format natural stone, tiles and for tile-on-tile applications of large format vitrified tiles. Ultra Fix H-4 is also suitable for applications of tiles over dry walls.

Method of application

- Prepare the surfaces before the tile adhesive application by removing oil, bond-inhibiting agents, dirt, dust, and laitance. The cleaning can be carried out using suitable methods such as wire brushing, water jetting, mopping, etc.
- Ultra Fix H-4 is recommended over vertical surfaces, and HIPPO Tile Fix H-4 for horizontal floor areas to level the surface in case of higher undulations or for any repair works, to attain a flat, stable, and normally absorbent background prior to HIPPO Tile Fix H-4 application.

Mixing

Mixing Instructions

- Mix 4 parts of tile adhesive with 1 part water (25% by weight)
- Use mechanical stirring for 2–3 minutes to ensure a consistency free of lumps
- Allow the mix to stand for 2 minutes for it to mature, then remix before use

Note: Do not add extra water to alter the mix consistency or to extend the pot life. Further water additions will hamper the adhesion strength of the tile adhesive.



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Application Method

- ◆ Apply the mixed Ultra Fix mix H-4 to the prepared substrate using the appropriate notch trowel for the size of the tiles being laid.
- ◆ A minimum of 10–12 mm bed thickness of tile adhesive for walls and floors must be achieved.
- ◆ Lay tiles onto the adhesive, firmly press the tile onto the adhesive to ensure good initial bonding, and do not disturb tiles until the adhesive has set.
- ◆ No pre-wetting of tiles is required while using Ultra Fix H-4.
- ◆ It is recommended to fix the tiles within 20 minutes of spreading Ultra H-4 to achieve adequate bonding as per the technical data provided.
- ◆ Any tile fixing after 30 minutes will lead to improper adhesion and may result in de-bonding of tiles.
- ◆ For vertical area applications, tiling should start from bottom to top.
- ◆ For tile-on-tile, glass-on-mosaic, and tile-on-old cement floor applications, care should be taken to prepare the existing base with adequate interlocking friction by removing polish, wax, or top smooth layers.

Technical Data

TECHNICAL PARAMETERS (AS PER IS 15477)

BULK DENSITY	1450-1550 KG/M3
WATER POWDER RATIO	25%
POT LIFE	1 HOUR
OPEN TIME	20 - 30 MINUTES
ADJUSTABLE TIME	20-30 MINUTES
USAGE TIME POST APPLICATION	24 HOURS
Average bed thickness	10-12mm
COMPRESSIVE STRENGTH@28DAYS	15-18 N/MM2
SLIP RESISTANCE@40KG/M2	0MM
COVERAGE@6MM PER KG	2 SQ.FT.



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TECHNICAL PARAMETERS (AS PER IS 15477)

Condition	KN	KN	MPa	MPa
DRY CONDITION@24HOURS	4	5.5	-	-
Dry conditions 14 days	10	19.2	>1.0	1.92
Wet conditions	5	10.1	>1.0	1.01
Heat ageing conditions	5	14.9	>1.0	1.49

Condition	N	N	MPa	MPa
Dry condition	700	1586	>1	1.58
Wet condition	450	1253	>1	1.25

Packaging

- Available in 20 kg bags

Shelf Life

- Ultra Fix h-4 has 12 months from the date of manufacture when stored in a cool, dry place



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Precautions

Not suitable for:

- Flexible substrates (e.g., fibrous cement sheeting, plasterboard, timber)
- Direct tiling on timber, plywood, or glass
- Direct tiling on metals or plastic substrates
- Direct tiling onto polyurethane membranes
- Moisture-sensitive tiles or stone
- Mixing or applying adhesives in temperatures below 5°C or above 50°C
- Application in extreme hot or windy conditions

Notes

- Allow a minimum of 24 hours before using the tile-fixed areas
- Do not tile if the temperature is likely to drop below 5°C or exceed 50°C
- For temperatures below 20°C, allow the adhesive to cure for an extended period of time
- Pot life, open time, and adjusting time depend on surface absorption, wind factor, temperature, and humidity at the site
- The technical data provided in this sheet is based on internal lab testing and may vary from actual site applications
- Consult HIPPO Products Division Technical Services Cell for further assistance

Safety directions

- Non-toxic and non-flammable
- Use gloves and goggles while handling
- Any splashes to the skin or eyes should be washed off with clean water immediately
- Seek medical advice if irritation persists

Disclaimer

- Information provided on this data sheet is the guideline for usage. Users are advised to undertake a trial for product suitability prior to its full scale usage.
- There is no implied guaranty/warranty for the results, and the company is not liable for any consequential damages.

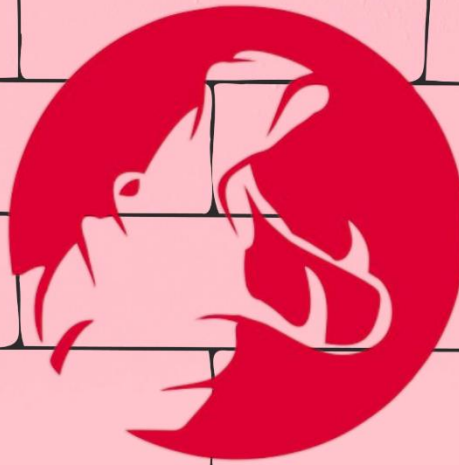


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Areas Of Application

Areas	Application
Walls	Yes
Floors	Yes
Interiors/Exteriors	Yes
Bricks	Yes



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