



Technical Data Sheet

L- te-04- 010520-02

In Compliance With IS norms	Walnut Lite Tile is an Eco friendly, light weight, polymer modified, mineral based, ready to use adhesive for doing lite work of fixing absorbent ceramic tiles in internal area for renovation as well as fresh work. For interior use only.
Main application Adhesive for fixing absorbent ceramic tiles in interior on floor & wall.	

Technical advantage of Walnut Lite Tile over cement or normal adhesive

- Guaranteed fixing of absorbent ceramic & glazed tiles on floor & wall in internal area.
- Exceed strength of class one adhesive as per IS norms.
- Very good coverage among class one adhesive available across industry.
- Suitable for renovation work.
- No water curing required.
- Saving of time & labor.
- Easy workability.
- No need to mix any extra cement.
- No need to soak absorbent tiles into water prior to fixing.
- Very low VOC and suitable for green building.

Suitable areas

- Internal walls & floor.
- Residential houses & buildings.

Suitable surfaces

- Fully dry and sound new or old traditional plaster
- New or old absorbent IPS or PCC floors which are sound and stable.

Suitable covering material

- Absorbent ceramic tiles.
- Glazed tiles.

Product not to be used

- On Exterior. (Use Calcibond series of adhesive).
- On concrete and other rigid cement surfaces. (Use Calcibond series of adhesive).
- On metal, wood, rubber & on cement boards. (Use Calcibond Ultima).
- On non-absorbent surfaces.
- For fixing vitrified tiles & stone. (Use Calcibond series of adhesive).
- In interior wall height greater than 10 feet. (Use Calcibond series of adhesive).
- More than 6 mm. of thickness. (Use Calcibond series of adhesive).
- Over expansion joint or in area with extreme movement.
- In swimming pool or under water. (Use Calcibond series of adhesives).

How to use



Important tools for application:

- Electric low speed mixing stirrer.
- Walnut notched trowel of 6x6 or 10 x 10 mm.
- Auto spirit level
- Other mixing & finishing tools such as mixing trowel, bucket, brush, broom, measuring tape etc.

Cleaning of tools:

- While still the material is fresh, all the tools can be cleaned with normal water. Once material is hardened, the material can be removed only by mechanical means.

Surface Preparation:

- Ensure that plaster / screed surface is sound, clean and free from all foreign material such as oil, grease, dust etc.
- If surface is uneven of more than 10 mm. than first do the leveling by using correct leveling material in order to avoid using excess thickness of adhesive or apply first thin coat of same adhesive to level the surface and wait for 24 hours.
- Onto dry clean surface, splash the enough water and let it surface dry to improve the workability of adhesive.
- If surface area is larger, provide movement joint every 3 meter.
- Follow concrete expansion joint and connection joint as per standard.

Mixing:

- Mix Wallnut Lite Tile 20 kg. Bag of powder with approx. 5 lt. of clean water. Use slow speed electric stirrer to have desired results. Manual mixing can compromise performance of adhesive.
- Adjust the water quantity as per ambient temperature & surface. The final mix must be workable paste.

How to apply:

- Spread the adhesive in desired thickness from 3 to 6 mm. onto cement surface using proper notch trowel.
- Once adhesive is applied, fix the tiles or stone onto adhesive before skin formation and press firmly. In case tiles or stone are of big size, also apply the adhesive layer at the back of tiles.
- Leave the space between tiles to have proper grouting and to accommodate surface movement.
- Leave the tiles for 24 hours to bond well and then follow the grouting process.

Product & Working Data

Product appearance	: Grey colour powder
Packing	: 20 Kg & 40 kg. moisture proof bags
Shelf life	: 12 months from the date of manufacturing.
Water ratio	: Approx. 5 Lt. per 20 kg. Bag.
Pot life	: > 2 hours
Thickness	: Minimum 3 to 6 mm.
Open Time	: > 20 minute
Adjustability	: > 20 minute
Initial setting	: 6 to 8 hours.
Final setting	: 24 hours.
Walking on floor	: After 24 hours.
Grouting	: After 24 hours.
Normal use of surface	: After 2 weeks.
Full strength of adhesive	: At 28 days.
Coverage	: Approx. 55-60 sq.ft. / bag of 20 kg using 3 mm. thick. OR 1.25 kg./ m ² / mm.
Working temperature	: + 5° C. to + 35° C.

(Data @ 27° C. & 50% humidity)

Technical Performances

In compliance with IS 15477-2019: for Type 1 Tile Adhesive

Tensile Adhesion (Dry condition)	: ≥ 0.75 N/mm ²
Shear Adhesion (Dry Condition)	: ≥ 1.12 N/mm ²

(Final results @ 28 days. 27° C. & 65% humidity)

- Final resistance to temperature after 28 days or full cure: - 30 to + 70° C.
- The final results at test site may vary based on temperature and humidity.

Important instructions

- Once bags are open, entire material must be consumed within 24 hours. Store the bags in safe environment.
- In case of very weak cement surface, please ensure that proper strength or correction is done before use of adhesive.
- If temperature is more than 35° C., then avoid using the products under direct sun.
- In case temperature is cold and below 5° C., the initial and final setting may affect.
- Expansion & contraction joint must be followed of concrete and all other elements of concrete structure.
- For any structure related issue, follow local code and appropriate consultant guidelines.
- In case the performance of Wallnut products are not as per technical data mentioned, please call Wallnut technical helpline.

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Walnut Green Building Index

Walnut range of products are most eco-friendly and suitable to use in all kind of buildings including certified green. Apart from using best of international raw material for best performance, Walnut procure the major raw material locally to safeguard environment.



- **Recycled raw material used.**
- **VOC (Very low Organic Compounds).**
- **100% suitable to recycle after expiry.**
- **Suitable for all kind of green and normal buildings.**

Walnut Quality & Safety Assurance

Products supplied are safe to use by any worker at site. However proper tools and safety measures must be in place for prolong working. The gloves, safety glasses and other protection measure must be followed as per local regulation.



Declaration

All the above information and results are provided based on Walnut internal quality test. Customer must check before using the product about performance and final expected results. Walnut cannot be held responsible for any damage of whatsoever nature at site.

Technical Help

Walnut Building Solutions India Private Limited | CIN : U36999MH2017PTC289638

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