

## Technical Data Sheet

Ref.: Z-Wp-19-010121-01

<p><b>In Compliance With</b> EN &amp; HDB (Singapore) norms</p>	<p>Zeorich Wall Putty is eco-friendly, extra fine, light weight, non-water curing, high strength, water resistance, shrinkage less, mineral based premium wall putty made from natural raw material to create smooth, glossy and extreme white surfaces before any paint application on wall and ceiling. Zeorich Wall Putty also can be used as final surface without any paint application in interior areas. Suitable for interior &amp; exterior.</p>
<p><b>Main application</b> Pure white cement-based wall putty for walls &amp; ceiling up to 3mm thickness.</p>	

### Technical advantage of Zeorich Wall Putty over traditional putty or other cement-based putty

- Best for internal & external areas before paint application.
- Pure white colour for premium finish.
- Imported German polymer for extra strength and long life.
- Extra fine carbonates and additives for smooth finish and seamless application.
- Very high tensile adhesion.
- Easy to mix and apply. Manual or machine mix possible.
- High compressive, abrasion & water resistance
- High gloss once final surface is ready for paint application.
- No water curing required
- High coverages and maximum spread.
- Economic & best value using Zeorich Wall putty of superior class with no match.
- Very low VOC and suitable for green building.

### Suitable areas

- Internal & external walls & ceiling.
- Residential & commercial buildings.
- Public infrastructure projects.
- Industrial facility.

### Suitable surfaces

- New or old fully dry and sound plasters.
- Smooth & levelled concrete surface.
- Dry walls, cement board surfaces.
- Gypsum base plaster, Plaster of Paris (POP) or similar high absorbent surfaces. (Apply Zeorich primer before putty application)

### Suitable covering material

- Primer & Paint of all types.
- Other suitable coating of PU or Epoxy

### Product not to be used

- On metal, wood, rubber & other non-cement-based substrate.
- On rising damp plaster or concrete surfaces.
- In exterior without covering with paint application.
- As waterproofing product.
- More than 1.5 mm. to 2 mm. of thickness in single coat.
- Over expansion and connection joint.

## How to Use



### Important tools for application:

- Electric low speed mixing stirrer.
- Vacuum cleaner / blower to remove surface dust.
- Skim coat applicator/ putty blade
- Cleaning sponge of good quality.
- 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 the surface is sound, clean and free from all foreign material such as oil, grease, dust etc.
- In case working on external surface, avoid applying putty on hot surface. First, let cool the surface with water spray or using wet sponge. Hot surface may compromise final performance of zeorich wall putty
- In case of high absorbent surfaces such as gypsum plaster or AAC block, before starting the application, first apply the Zeorich Primer or similar to reduce the absorption of surfaces. Consult Walnut technical representative for any information before application if required.

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### Mixing:

- Mix Walnut Zeorich wall putty with clean water by 40 % or more by weight. Use slow speed electric stirrer for mixing to have desired results. Manual mixing if not done properly may compromise final results. Mix thoroughly to obtain smooth slurry paste for application.
- Adjust the water quantity as per ambient temperature and dryness of surface. The final mix must be workable slurry paste.

### How to apply:

- Spread the wall putty on to the surface and apply the first coat in minimum thickness of 1.5 mm to achieve stable base.
- Once 1<sup>st</sup> coat is dried (minimum 5-6 hours at normal temperature), apply second coat not more than 1.5 mm.
- Leave the final surface to dry for minimum 48 to 72 hrs. before starting paint application. Once surface is fully dry and ready, paint application can be carried out as desire.

## Product & Working Data

Product appearance	: Very fine white colour powder
Packing	: 40 Kg. moisture proof bag.
Shelf life	: 12 months from the date of manufacturing.
Water ratio	: Approx. 16 to 17 liters for 40 kg. Bag.
Pot life	: > 120 Minutes
Thickness	: Up to 3 mm. single coat.
Initial setting	: > 120 Minute
Final setting	: < 500 Minutes
Surface preparation for paint	: after 24 hours
Paint application	: after 72 hours
Full strength of putty	: At 14 days.
Coverage	: Approx. 20 to 22 sft. / kg. / mm of thickness (based on surface texture)
Application temperature	: + 5° C. to + 35° C.

(Data @ 23° C. & 50% humidity)

## Technical Performances

In compliance with European Norms (EN) and HDB -Singapore

	Final Results	Test Method	As per HDB requirement
Compressive strength @28 days	: ≥ 10 N / mm <sup>2</sup>	: As per EN 196	: 7-12 N / mm <sup>2</sup>
Tensile strength @28 days	: ≥ 1 N / mm <sup>2</sup>	: As per EN 1348	: ≥ 0.8 N / mm <sup>2</sup>
Water retentivity %	: >97	: EN 196	: > 95
Water capillary absorption (ml)	: 0.6	: Karsten tube test @24 hrs.	

(Final results @ 28 days. 23\* C. & 50% humidity)

- Final resistance to temperature after 28 days or full cure: - 30 to + 80 \* C.
- The final results may vary based on temperature and humidity.

## Walnut exclusive technology



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### 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 surface, please ensure that proper strength or correction are done before uses of wall putty.
- If product to be applied on cement-based board or dry wall boards, check the manufacturer instruction about suitability of board. Apply suitable primer in case needed. Consult Walnut technical representative, if needed.
- If temperature is more than 35° C., than avoid using the products under direct sun.
- In case temperature is cold and below 5° C., the initial and final setting may affect.
- Expansion & connection 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 Walnut products is not as per technical data mentioned, please call Walnut technical helpline.

### 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**

IJMIMA, 806, 8<sup>th</sup> floor, Behind Goregaon sports club, off link road, Malad West, Mumbai – 400064

Technical services & customer care: +91-22-49713322 / +91 9967007783 | email: info@wallnut.co.in