



Technical Data Sheet

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| In Compliance With IS Norms | Zeorich Basalt is eco-friendly, natural, pure recycled sand in powder form. Made from natural process by crushing best of Basalt stone used in construction as aggregates. During the crushing process, Walnut selects the desired fine particles 0 to 6 mm for best results. |
| Main application Certified recycled crushed sand to use along with Zeorich Base for floor screed. | |

Technical advantage of Zeorich Basalt over traditional sand

- Certified by Walnut for best performance to along with Zeorich base binder.
- Greater compressive strength when used with Zeorich Base compared to traditional sand.
- Sand particles are evenly distributed from 0-8 mm for best results.
- Silt content is within the limit described in the IS standard and the final performance is guaranteed.
- When Zeorich Basalt used along with Zeorich Base, no water curing is required.
- Best results when used for making beds for tile and stone application.
- Recycled and no traditional sand required.
- Saving environment by not using river sand.
- Zero VOC and suitable for green building concepts.

Suitable areas

- To prepare the Mortar & screeds for Internal & external floor
- Residential & commercial floors including parking.
- Industrial floors.
- Public infrastructures such as airports, railways etc.
- Fully wet areas including swimming pool, water tank etc. as underlay.

Product not to be used

- With any other binder
- With normal cement at site
- For wall plasters.

How to Use

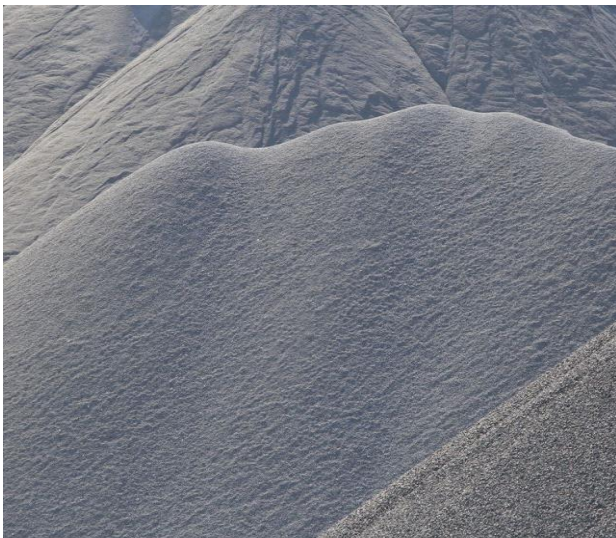
Important tools for application:

- Suitable site mortar / concrete mixer.
- Leveling bar
- Auto spirit level OR laser level.
- Other mixing & finishing tools such as 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.

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Mixing Ratio:

Application area

For fixing of all kind of tiles in interior
 For fixing of all kind of tiles in exterior
 For fixing of all kind of marble & granite slab
 Using on heavy duty floors as overlay screed
 (Alongwith Zeorich Base HD floor hardener)

Zeorich Base: Zeorich Basalt

| | | |
|--|---|-------------------------|
| For fixing of all kind of tiles in interior | : | 1:8 by volume or weight |
| For fixing of all kind of tiles in exterior | : | 1:6 by volume or weight |
| For fixing of all kind of marble & granite slab | : | 1:4 by volume or weight |
| Using on heavy duty floors as overlay screed (Alongwith Zeorich Base HD floor hardener) | : | 1:3 by volume or weight |

Mixing:

- Zeorich Basalt must be mixed with Zeorich base power in desired ratio. The mixing ratio depending upon the required strength and purpose of mortar application like tiling, stone application, heavy duty or screed application.
- Mix the product in concrete mixer with clean water for best results. Water mixing must be according to the specified limit as mentioned in zeorich base.

How to apply:

- Once mortar is mixed thoroughly, spread the mix on to a clean washed concrete or cement floor.
- On to the spread mortar, either stone or tile can be fixed immediately by using Walnut lite floor adhesive or the mortar can be allowed to cure for 24 hrs. and can be used as a dry screed underlay.
- Screed made with Zeorich Basalt and Zeorich Base can be used for fixing other covering such as wooden flooring, carpet, cement based self-leveling, epoxy or PU coating etc.

Product & Working Data

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| Product appearance | : Grey or dark colour granular sand. |
| Silt content | : Within limit of IS standard. |
| Bulk Density | : > 1500 Kg. / M3 |
| Packing | : 40 Kg. bag or loose as truck load on site. |
| Shelf life | : No expiry if stored in safe condition. |
| Particle size | : 0 to 6 mm. |
| Water ratio | : as per mix ratio alongwith Zeorich Base binder. |
| Coverages | : When used alongwith Zeorich Base, approx. 1.75 to 2 kg. / sft. for 10 mm. of screed thickness. |

Technical Performances of Zeorich Basalt sand when mixed with Zeorich Base

In compliance with European norms EN 13892 for screed

| Ratio: Zeorich Base: Zeorich Basalt | Compressive Strength |
|--|-----------------------------|
| 1:3 by volume or by weight | ≥35 N / mm ² |
| 1:4 by volume or by weight | ≥28 N / mm ² |
| 1:6 by volume or by weight | ≥22 N / mm ² |
| 1:8 by volume or by weight | ≥15 N / mm ² |



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

* The final results may vary based on kind of sand used at site, water ratio, temperature and humidity.

Important instructions

- Please note that by diluting more sand with Zeorich Base, may result in segregation of dry screed & a weaker screed.
- In case using normal sand, ensure that sand is of proper granulometry, clean and silt content under control.
- Once bags are open, entire material must be consumed within 24 hours. Store the bags in safe environment.
- In case product to be used for less than 25 mm. thick or more than 75 mm., consult Walnut local Technical representative.
- In case of very weak concrete surface, please ensure that proper strength or correction are done in base surface.
- If temperature is very high and more than 35° C. in external areas, avoid using the products or cover the applied product immediately with dampen cloth for next 24 hours or more till it cure fully.
- In case temperature are extremely cold 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 not as per technical data mentioned, please call Walnut technical helpline.

Walnut Green Building Index

Walnut range of products are most eco-friendly and most suitable to use in green buildings and in all other buildings. 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.

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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