



WOLKBERG LIMESITE™ INSTALLATION GUIDE

Product Name:	Limesite™ Cladding & Tiles
Application:	Walls & Floors

Congratulations! You have purchased an innovative African product made from Limesite™, a new generation concrete with unique mechanical properties and aesthetic appeal.

Limesite™ is a high-performance concrete that is designed and engineered to be used as various surfaces and finishes namely walls, countertops, floors, architectural pre-casts products and many more.

CLADDING AND TILES OVERVIEW

We have designed and manufactured a large range of wall cladding and tiles, of which some are 3D tiles. Most of our tiles carry our signature Dimensions aesthetic, an inherent property of Limesite™. The fluid movement seen in our unique aesthetic is different on every tile.

Colours and Tones

- An overall consistent colour tone will always remain, however, variation within a colour is a certainty. For any new color development, we require a minimum order quantity of 10m² in order to understand what the overall aesthetic will be.
- Our tiles are integrally coloured which means the tiles are what is known as 'through body'. No printed layer exists. This provides a richer "dimensions" finish and will also result in a more successful maintenance program if the tiles were ever to be reconditioned.
- When choosing colours, the decision should not be based on viewing individual samples but rather a full m² arrangement of that colour as no two tiles are identical and only a full arrangement will give a true reflection of expected aesthetic.

Silk and Dimensions Finish: Texture/Pattern/Movement

- Limesite™ has an inherent property of movement and this movement looks different across the various tile shapes. The material flows differently in manufacturing of different tile shapes.
- As an example: Wolkblue in Lene Tile will have different movement patterns to Subway Tile, and it will have a different amount of variation in colour. A rule of thumb is, the larger a tile, the more movement you will see but less variance in individual tile colour shades; the smaller the tile the less movement you will see but more variance in individual tile colour shades.



INSTALLATION GUIDE

PRODUCT PROPERTIES & QUICK TIPS:

Complying to these installation guide will ensure a high quality and durable installation finish. To do a high-quality installation it is important to know what you're working with.

- *These are not ceramic tiles.*
- Limesite™ tiles need to be protected after installation to avoid damage to glazing.
- Our tiles will only be able to take traffic/load once they have been properly installed.
- Limesite™ tiles are handmade and will vary in size and thickness (max 2mm).
- Considering the size variance, we recommend tiling with a 2mm grout line minimum.
- *Use a soft sponge grout trowel to apply the grout.*
- *Do not scrape dry grout or tile adhesive off with any steel tool.*
- Clean tiles during the grout process with a sponge and alkaline water solution (add bleach to clean water), do not allow grout to dry on the tiles.
- For superior results a mosaic grout can be used.

We recommend the use of a competent and experienced tiler as they would be able to advise best on the tools. Our guides are best practice guidelines and recommendations; this document is not exhaustive.

TOOLS AND SURFACE PREP PRODUCT REQUIREMENTS:

- *Do not use a segmented blade, or a ceramic tile cutter.* Wolkberg Limesite™ Tiles must be cut with a 115mm continuous diamond blade.
- Standard tiling tools, a good quality surface prep and adhesive. Ask for the TAL generic method statement for Limesite™ tiles if necessary.
- Small straight edge/level is required to ensure tiles edges are kept flush and tiling level is maintained.

STEPS:

Surface Prep

1. Evaluate the substrate for any structural flaws or damage that may need to be repaired before installing the floor finish. If you are unsure on how to evaluate a sub floor before installing, we would recommend you call the representative of the Adhesive suppliers who are trained to identify flaws.
2. If the floor is sound, surface prep on the floor can start by cleaning the floor and applying a bonding and keying agent as per the adhesive manufacturer's guide.

Now You Are Ready to Tile

3. We recommend that you read the adhesive supplier's guide very carefully to ensure a smooth installation. Different tile adhesives need different handling/ laying times.



4. A further precaution would be to make sure the substrate is clean and dust free. DO NOT lay more than one square meter of adhesive at a time. The reason this is crucial to adhere to is because Limesite™ tiles are more porous than Ceramics and Porcelains meaning it will drag moisture out of the adhesive more easily. These tiles are designed this way to ensure a good bond with the tile adhesive.
5. We also recommend dusting off the back of the Limesite™ tile and if the adhesive is quite stiff, wetting the back surface before laying it on the adhesive. The adhesive can also be sprayed lightly with a mist spray bottle before laying. (*See TAL generic method statement for Limesite™ Tiles*)
6. *Tip: To ensure an even spread of colour variation across your wall or floor, we recommend opening multiple boxes and pulling tiles from various boxes during the installation.*
7. Do not lay tiles over expansion joints.
8. A straight edge/level must be used throughout the installation ensuring the levels are flush between tiles. Limesite™ tiles have a maximum variance in thickness of +/- 2mm which needs to be considered when laying the tiles.

Grouting

9. Wolkberg recommends using a grout line in installations. If tiles are chosen to be butt joined, we still recommend grouting between the fine lines with a color matched grout. Tilling with butt joints is not recommended for outdoor applications.
10. The use of a grout line of 2mm or 3mm accounts for about 5% of the overall aesthetic visually; hence it is important to consider the right colour of grout very carefully.
11. Tip: In comparison to your tile colour, darker grout lines will recede, and lighter grout lines will stand out. Unless you are looking for an obvious contrast, we would suggest finding a colour as close as possible to the tile colour or to settle for a neutral tone like dove grey.
12. Tip: *Use a soft sponge applicator to apply the grout. Using mosaic grout will render best grouting results (color on this type of grout needs to be mixed manually).*
13. Tip: Grouting on kitchen back splashes or in bathrooms will require making the grout water tight to reduce the risk of discoloration in the grout line, harboring of bacteria and water ingress. Replace all the water in the grout with bonding liquid to ensure no water ingress can occur on the sides of the tiles after laying. Refer to your adhesive/grout manufacturers guide for more details.
14. Warning: *Be careful not to let any tile adhesive or grout dry or settle on the surface of the tile. Do not use steel scrapers or tools to apply or remove grout from the tiles.* Removing dry adhesive from the tile could cause micro scratches on the glaze and will result in a dull



finish. Cleaning the tiles with a soft sponge during installation will result in an easier to clean final product post installation.

Curing

15. Allow enough time for the tile adhesive to set, use the specified tile adhesive data sheet for guidance in this regard. Slight movement between a laid tile and a wet adhesive can result in the tile pulling loose post installation. The tiles can also crack if they receive traffic before the tile adhesive is fully cured.
16. After the installation, the floor should be swept with a soft broom to ensure that all dust, stones or building materials is lifted off the tiles.
17. Floor tiles should be covered with protective material until all construction is complete. Wolkberg Casting Studios will not take liability for any damage to the installed floor that is a result of negligence on site.

Post Installation (Floor)

- Initial cleaning of the floor should be conducted with the cleaner wearing socks.
- Wash the floor with a clean mop, making sure to rinse the mop and replacing the water frequently.
- A post installation treatment can be ordered from Wolkberg as the first stage of a long-term maintenance program. *(Please ask your sales representative for more details).*
- This floor must remain covered and protected until the site is ready to be opened.

Post Installation (Wall)

- Dust and clean with a simple soapy (Sunlight/Bleach) water solution.
- A post installation treatment can be ordered from Wolkberg as the first stage of a long-term maintenance program. *(Please ask your sales representative for more details).*

Maintenance

See full Care and Maintenance document.

In public spaces it is always recommended to conduct periodic maintenance on the floors as these do see excessive traffic.

If you are interested in a maintenance package, please get in touch with us to find out more.

*Thank you for taking the time to read through this guide.
We are here to support you so please do feel free to call when you need help.*