

Bernini

Technical Guidelines

Pavers & Cobbles on a Concrete Substrate
For Pedestrian & Residential Vehicle Use.

Vol 1. 2023

INSTALLATION GUIDELINES FOR PAVERS AND COBBLES ON A CONCRETE SUBSTRATE FOR PEDESTRIAN & RESIDENTIAL VEHICLE USE.

IMPORTANT NOTES

Please note, all information given in this document should be considered as a guide only and will be required to use in addition to the relevant Australian Standards for trade practices.

Our recommendations are made without full knowledge of your project environment and conditions. Our guides have been provided in good faith and should be used in conjunction with site considerations, services of professional contractors and consultants or the relevant manufacturer's technical data/ application method.

SUBSTRATE

Residential driveways or other paved areas that have regular traffic are recommended on a concrete substrate. The specification for the concrete substrate should be provided by the builder and approved by a consulting engineer. The builder and/or engineer should take into consideration of the vehicle size and traffic volume and provide an allowance for an appropriate depth of 30mm minimum screed thickness, plus any falls that may be required.

WATERPROOFING

It is essential that prior to install, the concrete slab is applied with two compliant waterproofing membranes & screed.

Double Waterproof:

- Apply waterproofing, '**Mapei Mapelastic Foundation**' to concrete slab.
- Screed to minimum thickness of 30mm + any to requirement for falls, using '**Mapei Mapestone TFB60**'.
- Apply '**Mapei Mapelastic Smart**' Moisture Barrier to screed prior to tiling.

Applications should be carried out in strict accordance with the manufacturer's guidelines.

INSTALLATION GUIDELINES FOR PAVERS AND COBBLES ON A NON-CONCRETE SUBSTRATE FOR PEDESTRIAN USE.

PRE-SEALING

Limestone, white marble & granite, pool or pond copings and any item that is regularly exposed to water are recommended for six sided dip sealing done prior to installation, where the material is dipped into the sealant to coat all sides of the product.

Any stone requiring dip sealing is to be sealed with **Sealers Plus Ultra Block**.

Minimise excess sealer drying on the surface by standing upright with spacers in between and or also wiping excess sealer from the surface with a cotton cloth. Note this applies to both the top surface for visual reasons and the underside to ensure adhesion is not affected.

Note: For Porphyry Stone & some Marble and Granite products this may not be essential, however if in doubt due to risk of colour contamination or corrosion please contact our office to discuss.

Any installation Dip Sealed with Ultra Block still requires sealing on completion with a standard penetrating sealer such as **Sealers Plus Aqua-Seal Gold +**.

ADHESIVE

Limestone or Basalt tiles and pavers are to be adhesive fixed with '**Mapei Keraquick S1**', which is a one part low moisture fast drying adhesive ideal for natural stone, including stone that may be at risk of moisture sensitivity. However Granite & Marble tiles or pavers can be installed with '**Mapei Keraflex Maxi S1**'

In the case of highly moisture sensitive materials such as terrazzo, green marble and some limestone products '**Mapei Granirapid**' is to be specified. If in doubt please contact our office for further clarification.

Application should be carried out in strict accordance with the manufacturer's guidelines.

EFFLORESCENCE

Minimise risk of Efflorescence by use of Efflock as an additive to water when used at any stage of the install process.

INSTALLATION GUIDELINES FOR PAVERS AND COBBLES ON A NON-CONCRETE SUBSTRATE FOR PEDESTRIAN USE.

GENERAL SEALING

Sealing on completion is recommended for natural stone pavers with **Sealers Plus Aqua-Seal Gold +**.

It is recommended that a professional cleaning and sealing contractor is engaged to ensure the ultimate finish and longevity to your natural stone. Contact our showroom representatives for a list of contractors.

COLOUR ENHANCE

Enrich the depth of colour and highlight natural stone variations with a two in one sealer and colour enhancer **Sealers Plus Enhance 'N' Seal**.

The only exception being where there is a preference for a lesser degree of colour enhance in which case we suggest you contact us to consider the requirement and make a recommendation.

PRODUCT CONSIDERATIONS

Natural stone is a naturally occurring material and it is typical for the stones characteristics to have variation in colour/tone and or surface finish. Materials may also vary in appearance from the original sample as no two pieces are the same. It is encouraged that the client inspects the material prior to purchase.

Minor marks and small chips are nonstructural and typical of natural stone and not considered a defect. Due to variations of natural stone it is recommended that tiles & pavers are blended between all crates or pallets prior to installation.

MAINTENANCE

All products will require some form of maintenance over time, this will vary from surface to surface and will be heavily dependent on use, location and product type. The product type and maintenance requirement may require sealing only or a combination of both cleaning and sealing by a professional contractor. We suggest you contact us to consider the requirement and make a recommendation.

NOTE:

- Any of the above recommendations for products are intended to be indicative only of product type as, generally, there will be equally approved options from other manufacturers. For further clarification regarding suitability please consult the manufacturer, your builder or installation contractor.
- The above recommendations are made without full knowledge of your project environment and conditions. For a complete and conclusive specification for your project please contact the manufacturer for a project specification and full guidelines and procedures for the related products.