artisan EXTERIOR

INSTALLATION GUIDE

GLASS POOL TILES

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Please note, all information given in this document should be considered as a guide only and should be checked against the relevant Australian Standards for trade practices at the time of installation.

All information is provided in good faith and should be used in conjunction with site specific considerations. Tips and Guides included do not replace the services of professional contractors or consultants, or the relevant manufacturer's technical data sheet or recommended method of application.

Artisan Exterior reserves the right to change, delete or otherwise modify any information in this document without prior notice.

CONTACT:

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1300 301 898
artisanexterior.com.au

PRODUCT CONSIDERATIONS:

The Artisan Exterior range of Glass Pool Tiles is made of a minimum of 98% recycled glass and natural pigments and has 0% water absorption. The Thermo-Polymer dot backing system used across all ranges allows for greater stability in adhesion and ultimate grout coverage.

Due to the manufacturing and firing methods used to produce Spanish Glass Mosaics, these glass mosaics are not perfectly square, eliminating the issue of sharp edges and corners and providing a smoother edge finish.
Some individual tiles may appear uneven or out of line on the sheet, it is expected that a limited number of tiles may also have small chips on the edges or corners. Use of recycled glass may result in dotting or discolouration in individual tile chips.

As with all Glass Mosaics, colour variation occurs from batch to batch, samples should only be taken as indicative of colour and may not be taken from the batch that will be delivered to site. If an exact representation is required, please contact us and request a sample from the batch allocated to your project. Note that most products within our range have natural colour variation or a large number of print variations which will not all be present in samples provided.

STORAGE:

Upon delivery, we recommend storing uninstalled product in a dry, protected environment, away from exposure to weather and direct sunlight, single stacked on a firm level surface.

SUBSTRATES, FOUNDATIONS & SURFACE PREPARATION:

Successful installation begins with a high-quality substrate. The concrete pool shell should be structurally sound with all concrete wood float finished and pitched to drainage where required. Concrete should be fully cured to Australian Standards to allow shrinkage to occur.

The surface should be mechanically prepared to remove any contaminants prior to installation, this can be carried out by grinding, abrasive blasting with non-metallic grit, low-pressure water/scrubbing or high-pressure water blasting.

The surface should be clean, firm and free of dust, dirt, oil, grease, curing compounds, release agents and other barrier materials with an open poured surface in preparation for render, waterproofing or adhesives.

Areas that require filling, patching or levelling should be prepared using an appropriate mortar such as Mapei Planitop Smooth and Repair R4, following manufacturer's guidelines for installation.

A render or screed may be applied to achieve a suitable surface for the adhesion of tiles or the waterproofing membrane and should be carried out in accordance with the manufacturer's guidelines.

Artisan Exterior recommends Mapei Adhesive Systems for pool applications.

Mapei: www.mapei.com

CONTROL & MOVEMENT JOINTS:

Movement joints should be carried out in accordance with AS 3958 and should be a minimum width of 6mm. Existing joints in the substrate should be followed through to the finished tile surface.

Movement joints will be present at all internal and external corners and changes in the plane of the substrate, along all perimeter walls where the tiles butt against walls or fittings and around all penetrations the tile finish.

A movement joint must be installed between the underside of the pool coping and the pool tile.

Always use an appropriate flexible sealant when following joints through to the finished surface, do not tile over joints.

WATERPROOFING MEMBRANE:

A compliant under tile waterproofing membrane should be used in most pool applications. This can be applied to either the concrete base or the screed bed (check manufacturer's instructions).

Whether installing the waterproof membrane directly onto the concrete or onto a screed bed, installation of the waterproofing membrane should be carried out in strict accordance with the manufacturer's instructions.

Artisan Exterior recommends Mapei Waterproofing Systems for pool applications.

Mapei: www.mapei.com

WEATHER CONSIDERATION:

Consider expected weather conditions prior to installation. Conditions below 10 degrees and above 30 degrees Celsius can inhibit adhesion or bonding, rain can cause excess moisture which in turn can weaken the bond strength of adhesive and grout.

Temperature ranges are indicative only, for further information, consult the relevant data sheet of the intended product(s) being used on-site.

CUTTING:

It is recommended to use a specialist, high-quality, diamond blade designed for use with glass, on a wet saw. If cutting with a grinder, a thin, glass specific, continuous blade is recommended. Keep the cut damp to avoid over-heating the glass (dry cutting will cause cracking or shattering). Cut on a firm surface with some flexibility, a hard surface will increase chances of breakage. Contact Artisan Exterior if you require additional information.

Correct PPE should always be worn and work health safety measures adhered to.

For more information visit safeworkaustralia.gov.au

ADHESION:

An Adhesive, classified as C2 TE S1 or Higher bonding strength, specially recommended by the Adhesive Manufacturers to lay glass pool tiles inside swimming pools.

Artisan Exterior recommends both Mapei Keracolour FF mixed with Planicrete SP Adhesive System, colour matched to the Ultracolour Plus grout colour chosen and Laticrete 335 for the installation of glass mosaics.

MIXING:

Adhesive (with additive):

A two-part adhesive will require mixing with either an additive or an additive combined with water. Always follow the manufacturer's instructions carefully and follow the ratios for powder, additive and water usage accurately.

Pour the required amount of additive into a clean mixing container, if mixing with water, add the required amount of additive to clean, cool water and mix until blended. Gradually add the proportionate amount of powder to the additive or diluted additive solution while slowly mixing. Mix thoroughly with a low-speed mixer until a there is a smooth, creamy, homogeneous consistency and uniform shading of the coloured grout. Allow to stand for 3-5 minutes and re-stir the mixture.

The consistency of the adhesive can be slightly adjusted to suit site conditions along with the location of fixing.

FIXING

1. Ensure surface preparation has been carried out properly and the back of the glass mosaics have been cleaned of all dust or contaminants
2. The adhesive should be worked/keyed into the substrate using an appropriately sized v-notched trowel
3. The glass mosaics should be gently positioned onto the freshly notched adhesive bed
4. To ensure full contact with the adhesive a rubber trowel should be used to further, evenly bed the tiles into the adhesive.
5. Each sheet of tiles should be aligned to show even joint spacing between the sheets
6. Work in controlled spaces with consideration for adhesive open time (pot life)
7. Any surplus adhesive must be removed from the surface of the tile and tile joints, before the adhesive sets.

Mapei: www.mapei.com
Laticrete: www.laticrete.com

GROUTING:

Artisan Exterior recommends colour matching Mapei Ultracolour Plus Grout to the Keracolour FF mixed with Planicrete SP adhesive system

MIXING:

Grout (no additive):

Pour the required amount of clean, cool water into a clean mixing container. Gradually add the proportionate amount of powder while slowly mixing. Mix thoroughly with a low-speed mixer until a there is a smooth, creamy, homogeneous consistency and uniform shading of the coloured grout. Allow to stand for 3-5 minutes and re-stir the mixture.

APPLICATION:

1. Confirm recommended adhesive curing time has elapsed prior to starting.
2. Check all joints are thoroughly cleaned.
3. Moisten the surface with a damp sponge, do not flood the glass pool tiles or allow water to stand in the ungrouted joint.
4. Work grout into the joint with a rubber grout float. Make sure all joints are well-compacted and free of voids or gaps.
5. Remove excess grout from the surface by moving the float diagonally over the joints.
6. Allow grout to firm (typically 10-15 minutes, based on weather consideration).
7. Fill two buckets of water for cleaning. Use one bucket for cleaning the majority of the grout residue from the sponge, use the other for moistening the sponge.
8. Dip sponge and wring out excess water. Wipe diagonally across the joint in a single stroke, reverse the sponge and repeat the process in an adjacent area. After using both sides, rinse the sponge in the bucket allocated to cleaning the majority of the grout residue, then dip into the second bucket, wring out the excess and repeat the process.
9. Avoid using excessive water and replace water regularly.
10. Ensure **all** grout residue is cleaned from the surface of the glass pool tiles within the time limit specified in the manufacturers data sheet.
11. Do not allow immersion in water for a minimum of 72 hours after completion of grouting.

Artisan Exterior recommends Mapei Ultracolour Plus Grout Systems for Glass Pool Tiles applications.

Mapei: www.mapei.com

POST GROUT CLEANING:

Artisan Exterior recommends working as cleanly as possible during the grouting process as excess grout haze will require corrosive cleaning and can impact the stability of the installation products and appearance of the finished product.

If a small amount of grout haze is visible on the glass pool tiles, after the grout has cured, an acidic based cleaner may be required for a final clean*.

If acid washing is required, Artisan Exterior recommends Mapei Keranet for this application.

Mapei: www.mapei.com

**Prior to cleaning, confirm the product is suitable for use on all installation products used and protect any surfaces that may be damaged or altered by the product.*

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 water balancing and overall cleanliness of your pool's environment.

Please contact Artisan Exterior to discuss the best suited product to your needs.

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