DUNE
UNIQUE MATTERS

TECHNICAL GUIDE

Installation guide for glass floor and wall tiles

Recommendations for installing, grouting and maintaining glass floor and wall tiles.

01 Surface preparation

Before tiling, the substrate must be firm, clean and perfectly level.

If the substrate is uneven, correct it with suitable levelling products. **Never level using the adhesive.** Also repair any cracks or imperfections until the wall is completely smooth.

> 2 mm
Unevenness above which the substrate must be **levelled** with suitable products.

< 2 %
Maximum permissible moisture in the **wall** before tiling.

02 Adhesive material

The choice of adhesive depends on several factors that should be assessed before starting.

- The substrate material to be covered (plasterboard, synthetic panels, plaster, wood…).
- The stability of the substrate.
- The area to be covered.
- The ambient conditions.
- The speed at which the work is to be carried out.

The adhesives recommended by DUNE have been tested at our facilities, under controlled ambient conditions and on rigid brick or concrete substrates. For any other type of installation, carry out a test first and, if in doubt, consult DUNE or the adhesive manufacturer directly.

ADHESIVE FOR GLASS

White adhesives are recommended to minimise any change in the shade of the glass, covering the whole surface of the tile. Install with **C2 tile adhesive** (see the adhesives table).

ALWAYS CARRY OUT A TEST

Before installing all the material, test the system on at least **2 tiles**.

03 Installation

Fresh adhesive and full coverage of the tile are the key to a long-lasting installation.

1 **Start at the bottom**

- Work from the bottom upwards, allowing the lower rows to dry.

2 **Spread the adhesive**

- Apply a thin layer (approx. 3 mm) on the area where the tile will go and lay it while the adhesive is still soft, before a dry skin forms.
- For large formats (30×60 or similar), use back-buttering: a thin layer on the substrate and another on the tile, with the trowel notches (no. 3) in opposite directions.
- Never apply adhesive in spots or “dabs”.

3 **Press**

- Press gently to achieve good adhesion and remove any voids without adhesive.

4 **Hold the tiles in place**

- While the adhesive dries, secure them with a wooden batten or adhesive tape.
- To correct the position of a tile, remove it and clean the back thoroughly before laying it again.

5 **Leave a joint**

- Leave a joint of at least 2 mm and use tile spacers.
- In areas with high thermal expansion or on less stable surfaces (such as plasterboard), leave a minimum 3 mm joint and use flexible epoxy adhesives.



COMBINATION WITH OTHER SERIES

CRISTAL series can be combined with the other ceramic series, provided they are laid with a joint. Distribute the joints so as to minimise small dimensional differences between materials.

04 Cutting and drilling

Glass requires specific tools and great care, especially at the end of each operation.

Straight cuts

Use an angle grinder with a continuous-rim diamond blade, water-cooled.



Drilling

- Use a specific glass drill bit; hollow diamond-tipped core bits are recommended.
- Keep the bit constantly cooled with water.
- Drill at low speed and **without hammer action**.
- Do not press hard: let the bit advance gradually to avoid chipped edges or later cracks.

- Take extra care at the end of drilling.

> TEXTURED MODELS
>
> These are harder to drill due to internal stresses in the glass. On these pieces, drill **a single hole, under 8 mm.**



05 Grouting

The final finish depends on both the material and cleanliness during application.

1 **Prepare the joints**

- They must be clean and dry, with a minimum depth of 2 mm.

2 **Apply the grout**

- Spread it with a smooth trowel, filling all the joints.

3 **Clean immediately**

- Do not let excess material dry: remove it as soon as possible with a sponge dampened with water and neutral pH cleaning products.
- Never use abrasive products. If the material has dried, use cement residue removers.

For greater water resistance, **epoxy grout** is recommended, especially in wet areas. See the grout table in section 07.

> CHOOSE THE COLOUR CAREFULLY
> The grout colour affects the final appearance. DUNE advises a test before grouting the whole surface.

06 Cleaning and maintenance

Daily maintenance is simple if the right products are used.

Routine cleaning can be done with standard products, without abrasive cleaning materials.

07 Recommended products

References for adhesives, treatment products and grouts.

Adhesives

Manufacturer	C1 tile adhesive	C2 tile adhesive	Epoxy adhesive
KERAKOLL	ESPECIAL ECO	H 40 ECO FLEX	SUPERFLEX ECO
MAPEI	TIXOBOND	KERAFLEX MAXI S-1	KERALASTIC T

Manufacturer	Latex adhesive mortar
LATICRETE	Mortar 211 + Laticrete 4237

Treatment products

Surface	Code	Description	PHP code
GLASS	185463	ANTIGLISS	D787
STONE	184507	LIQUID PROTECTIVE WAX	D945
STONE	184508	STAIN-PROOF SEALER	D969

Grouts

Manufacturer	Cementitious grout	Epoxy grout
KERAKOLL	FUGABELLA ECO PORCELANA	FUGALITE
MAPEI	KERACOLOR FF	KERAPOXY
LATICRETE	LATICRETE 1600 series	—

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HEAD OFFICE

Partida Rachina, 12130 - Sant Joan de Moró (Castellón) - España

CONTACT

+34 964 657 400

dune@duneceramics.com

www.duneceramics.com