

Collection
VETRITE®

INSTALLATION MANUAL

by
SICIS®

The aim of this technical guide is to provide instructions on how to select the materials (joint sealant adhesives and grouts) most suitable for the installation of Vetrite glass slabs by Sicis, used for interior wall cladding in the residential and/or public and commercial building sector. From the point of view of application, Vetrite glass slabs can be likened to ceramic elements. The design and installation of the cladding must therefore comply with the requirements of national standards in force in each country of use. In Italy, the standard of reference is UNI 11493, which provides instructions necessary to ensure mandatory quality, performance and durability requirements are met. When installing large formats (slabs with one side equal to or greater than a length of 59.3 cm), it is recommended to consult paragraph 7.13.8 of standard UNI 11493.

Various general precautions that should be followed are listed below:

Substrates - Before installation, check that substrates are clean, free of loose fragments, properly dried and cured, flat and level, and that mechanical resistance requirements based on the intended use have been met.

Worksite conditions - Check the suitability of temperature, humidity, lighting conditions etc. at the time of the product's application.

Materials - Check that all materials used for installation (glass slabs, levellers, smoothers, adhesives, sealants, waterproofing products, etc.) are suitable for the intended use and have been correctly stored.

Expansion joints - Check for the correct design and installation of flexible joints, intended to absorb any wall movements/vibrations. These types of joints are normally sealed using a neutral silicone crosslinking agent.

Trowelling - Application by way of trowelling (adhesive applied to substrate only) is allowed for smaller formats where the longest edge is less than 59.3 cm, on stable substrates not subjected to vibrations and/or expansion and contraction movements. The trowel notch must in any case guarantee 70-80% slab coverage.

Back-buttering - For the installation of large formats (glass slabs with one side equal to or greater than 59.3 cm), the adhesive mortar must be applied to both the substrate and the back of slabs so as to obtain a full bed without any air pockets. For this purpose, it is recommended to apply the adhesive onto the substrate using a 6x6 mm notched trowel, and onto the back of the slab using a 3.5x3.5 mm notched trowel.

Joints - Joint width must be determined by taking into account the following parameters:

- slab format;
- mechanical properties of substrate;
- installation environment and expected operating conditions.

As per standard UNI 11493, butt joints are not allowed. Any plastic spacers must be removed before grouting. For large formats, it is recommended to use self-levelling spacers to ensure the perfect planarity of the covering.

Vetrite glass slab data sheets and applications

| | | Process | | | | | Application | | | |
|---|-------------------|-------------|-------------|--------------|--------------------|--------------------|---------------|--------------------|------------------------|-------|
| | | Dry cutting | Wet cutting | Wet drilling | Dry edge finishing | Wet edge finishing | Interior Wall | Furniture covering | Bathroom and wet areas | Pools |
| A | Alma | X | X | X | X | X | X | X | X | # |
| A | Aluminium | X | X | X | X | X | X | X | X | # |
| A | Antique | X | X | X | X | X | X | X | X | # |
| A | Antique Blu | X | X | X | X | X | X | X | X | # |
| A | Antique Odra | X | X | X | X | X | X | X | X | # |
| A | Antique Verde | X | X | X | X | X | X | X | X | # |
| B | Boheme Grey | X | X | X | X | X | X | X | X | # |
| B | Corteza Brown | X | X | X | X | X | X | X | X | # |
| B | Corteza Gold | X | X | X | X | X | X | X | X | # |
| B | Diluvio Moka | X | X | X | X | X | X | X | X | # |
| B | Dust Gold | X | X | X | X | X | X | X | X | # |
| B | Elephant Cacao | X | X | X | X | X | X | X | X | # |
| B | Elephant Calima | X | X | X | X | X | X | X | X | # |
| B | Elephant Carchoal | X | X | X | X | X | X | X | X | # |
| B | Elephant Copper | X | X | X | X | X | X | X | X | # |
| B | Elephant Gold | X | X | X | X | X | X | X | X | # |
| B | Elephant Panna | X | X | X | X | X | X | X | X | # |
| B | Elephant Tortora | X | X | X | X | X | X | X | X | # |
| B | Feather Black | X | X | X | X | X | X | X | X | # |
| B | Feather Cipria | X | X | X | X | X | X | X | X | # |
| B | Feather Grey | X | X | X | X | X | X | X | X | # |
| B | Filo Silver | X | X | X | X | X | X | X | X | # |
| B | Fuliggine | X | X | X | X | X | X | X | X | # |
| B | Fuliggine Gold | X | X | X | X | X | X | X | X | # |
| B | Iguana Calima | X | X | X | X | X | X | X | X | # |
| B | Iguana Tortora | X | X | X | X | X | X | X | X | # |
| A | Mirror | X | X | X | X | X | X | X | X | # |
| B | Papiro Gold | X | X | X | X | X | X | X | X | # |
| B | Papiro Rust | X | X | X | X | X | X | X | X | # |
| B | Peltro Mud | X | X | X | X | X | X | X | X | # |
| B | Pergamino Gold | X | X | X | X | X | X | X | X | # |
| B | Pergamino Grey | X | X | X | X | X | X | X | X | # |
| B | Resham Cipria | X | X | X | X | X | X | X | X | # |
| B | Rhino Orange | X | X | X | X | X | X | X | X | # |
| B | Suede Cream | X | X | X | X | X | X | X | X | # |
| B | Tanso Bronze | X | X | X | X | X | X | X | X | # |
| B | Timber Glacial | X | X | X | X | X | X | X | X | # |
| B | Tela Brown | X | X | X | X | X | X | X | X | # |
| B | Tela Dark | X | X | X | X | X | X | X | X | # |
| B | Tela Grey | X | X | X | X | X | X | X | X | # |
| B | Tela White | X | X | X | X | X | X | X | X | # |
| A | VisOne | X | X | X | X | X | X | X | X | # |
| A | VisTwo | X | X | X | X | X | X | X | X | # |

| | | Process | | | | | Application | | | |
|---|---------------------------|-------------|-------------|--------------|--------------------|--------------------|---------------|--------------------|------------------------|-------|
| | | Dry cutting | Wet cutting | Wet drilling | Dry edge finishing | Wet edge finishing | Interior Wall | Furniture covering | Bathroom and wet areas | Pools |
| B | Veneziano Red | x | x | x | x | x | x | x | x | # |
| B | Zamak Bronze | x | x | x | x | x | x | x | x | # |
| B | Atlas Black Per-grey | x | x | x | x | x | x | x | x | # |
| B | Atlas seppia per gold | x | x | x | x | x | x | x | x | # |
| B | Bucolico Black Bo-grey | x | x | x | x | x | x | x | x | # |
| B | Bucolico Black Tela-grey | x | x | x | x | x | x | x | x | # |
| B | Bucolico White Per-grey | x | x | x | x | x | x | x | x | # |
| B | Ricordo Black Ele-panna | x | x | x | x | x | x | x | x | # |
| B | Ricordo Black Per-grey | x | x | x | x | x | x | x | x | # |
| B | Ricordo Blu Per-grey | x | x | x | x | x | x | x | x | # |
| B | Ricordo White Ele-tortora | x | x | x | x | x | x | x | x | # |
| C | Acaram Black* | x | | | x | | x | x | * | # |
| C | Athena Gold* | x | | | x | | x | x | * | # |
| C | Cloud Platinum* | x | | | x | | x | x | * | # |
| C | Fancy Black* | x | | | x | | x | x | * | # |
| C | Fancy Gold* | x | | | x | | x | x | * | # |
| C | Nexus titan* | x | | | x | | x | x | * | # |
| C | Numisma Bronze* | x | | | x | | x | x | * | # |
| C | Wave Black* | x | | | x | | x | x | * | # |
| C | Wave Platinum* | x | | | x | | x | x | * | # |

* If Vetrite is to be installed in wet environments, indicate the intended application at the time of the order (for colours marked with an asterisk only).

Consult your local retailer.

Possible adhesives

| Interior walls in residential, public/commercial buildings | | |
|---|--------------------------------|--------------------------------|
| Substrates | Series A colours | Series B and C colours |
| Lime/cement-based renders | Litoelastic | Hyperflex K100 - Litoelastic |
| Gypsum-based renders ¹ | Litoelastic | Hyperflex K100 - Litoelastic |
| Cast concrete ² | Litoelastic | Hyperflex K100 - Litoelastic |
| Precast concrete | Litoelastic | Hyperflex K100 - Litoelastic |
| Pre-existing substrates made of tiles, mosaics, stone ³ | Litoelastic | Hyperflex K100 - Litoelastic |
| Substrates treated with Hidroflex, Aquamaster, Elastocem, Coverflex | Litoelastic | Hyperflex K100 - Litoelastic |
| Fibre cement and cement boards | Litoelastic | Hyperflex K100 - Litoelastic |
| Waterproof and non-waterproof gypsum boards ⁴ | Litoelastic | Hyperflex K100 - Litoelastic |
| Lightweight panels | Litoelastic | Hyperflex K100 - Litoelastic |
| Wood or metal surfaces | Litoelastic | Litoelastic |
| Furniture elements | Litoelastic Silicone neutro | Litoelastic Silicone neutro |

Key

- (1) After treatment with Primer C if Hyperflex K100 is used. Maximum humidity = 0.5%
- (2) Curing time: minimum 6 months.
- (3) After cleaning and degreasing with a water and caustic soda solution or by way of surface sanding.
- (4) After treatment with Primer C for non-waterproof gypsum boards.

Description of adhesives

Hyperflex K100: Single component high-performance white or grey cementitious adhesive with high deformation ability, low volatile organic chemical emissions, zero vertical slip and class C2TE-S2 extended open time as per EN 12004 and EN 12002, for the installation of ceramics, natural stone and mosaics on indoor and outdoor walls and floors. Particularly suitable for low thickness laminated porcelain stone installations, even if reinforced. Suitable for installation over existing tiles, heated floors and walls. Product developed using the new *Litokol Dust Reduction* system, which reduces the generation of dust during mixing.

Litoelastic: Two-component epoxy-polyurethane white reactive adhesive with R2T classification as per EN 12004 and zero vertical slip, suitable for use with all types of ceramics, natural stone and mosaics on either traditional or more complex substrates such as metal, wood or fibreglass surfaces, for both indoor and outdoor wall and floor coverings. Suitable for installation over existing tiles and heated floors.

Grouting

Joints can be grouted after a minimum of 24 hours from the installation of Vetrite glass slabs. Use a Starlike two-component epoxy grout by Litokol S.p.A.

Revision 1 - October 2016.

For more Information please view Youtube

