

Recommended adhesives

The use of an appropriate adhesive is essential for a correct installation. For the installation of ceramic tiles You should follow the laying instructions provided by leading adhesives manufacturers. You should choose the most suitable adhesive on the basis of the following factors:

Type of bed | Type and size of tile | Use of tiled surface (floor/wall; indoor/outdoor) | Weather conditions at the time of laying | waiting time before the ceramic surface can be used.

USE TYPE OF BED	TYPE OF TILE TYPE	SIZE (cm)	RECOMMENDED ADESHIVES EUROPEAN STANDARDS EN 12004 AND EN 12002
INDOOR WALL TILES			
Cementitious plaster or mortar Plaster (plaster or panels, following application of a suitable PRIMER) Painted walls (only if the paint is firmly anchored)	double-fired tiles, fine glazed porcelain stoneware, white-body wall tiles, single-fired tiles	small and medium size (10x10;13x13;10x30; 20x20;25x33)	Normal cementitious adhesives with long open time (Class C1E - EN 12004)
	white body wall tiles	large size (25x45;12,3x45;30,5x56;15x56;20x80; 30,5x91,5)	Improved cementitious adhesives resistant to slip and with long open time (Class C2TE - EN 12004)
	fine porcelain stoneware tiles	any size	
Cast concrete Plasterboard Waterproofing in bathrooms and showers Existing ceramic tiles	double-fired tiles, fine glazed porcelain stoneware, white-body wall tiles, single-fired tiles	small and medium size (10x10;13x13;10x30; 20x20;25x33)	Improved cementitious adhesives resistant to slip and with long open time (Class C2TE - EN 12004)
	fine porcelain stoneware tiles	size ≤ 30x30	
	white body wall tiles	large size (25x45;12,3x45;30,5x56;15x56;20x80; 30,5x91,5)	Improved cementitious adhesives resistant to slip with long open time (Class C2TE - EN 12004) and deformable (Class S1 - EN 12002)
	fine porcelain stoneware tiles	size ≥ 30x30	
INDOOR FLOORS			
Cementitious screeds Existing cement floors (cement concrete, bush-hammered) Anhydrite screeds (following application of a suitable PRIMER)	double-fired tiles, fine glazed porcelain stoneware, white-body wall tiles, single-fired tiles	small and medium size	Normal cementitious adhesives with long open time (Class C1E - EN 12004)
	fine porcelain stoneware tiles	any size	Improved cementitious adhesives with long open time (Class C2E - EN 12004)
	double-fired tiles, fine glazed porcelain stoneware, white-body wall tiles, single-fired tiles	any size	Improved cementitious adhesives with long open time (Class C2E - EN 12004)
Concrete floors - Heating floors Existing ceramic, terrazzo and natural stone floors Waterproofing in bathrooms	fine porcelain stoneware tiles	size ≤ 30x30	Improved cementitious adhesives with long open time (Class C2E - EN 12004) and deformable (Class S1 - EN 12002)
	fine porcelain stoneware tiles	size ≥ 30x30	
OUTDOOR FLOORS			
Cementitious screeds Concrete floor Layers of waterproofing	fine porcelain stoneware tiles	size ≤ 30x30	Improved cementitious adhesives with long open time (Class C2E - EN 12004) and deformable (Class S1 - EN 12002)
	fine porcelain stoneware tiles	size ≥ 30x30	Improved cementitious adhesives with long open time (Class C2E - EN 12004) and highly deformable (Class S2 - EN 12002)
OUTDOOR WALL TILES			
Cementitious plaster	fine porcelain stoneware tiles	size ≤ 30x30	Improved cementitious adhesives resistant to slip with long open time (Class C2TE - EN 12004)
	fine porcelain stoneware tiles	size ≥ 30x30; ≤ 45x45	Improved cementitious adhesives resistant to slip with long open time (Class C2TE - EN 12004) and deformable (Class S1 - EN 12002)
	fine porcelain stoneware tiles	size ≥ 45x45	(* Improved cementitious adhesives resistant to slip with long open time (Class C2TE - EN 12004) and highly deformable (Class S2 - EN 12002)
Concrete cast in situ or prefabricated	fine porcelain stoneware tiles	size ≤ 20x20	Improved cementitious adhesives resistant to slip with long open time (Class C2TE - EN 12004)
	fine porcelain stoneware tiles	size ≥ 20x20; ≤ 30x30	Improved cementitious adhesives resistant to slip with long open time (Class C2TE - EN 12004) and deformable (Class S1 - EN 12002)
	fine porcelain stoneware tiles	size ≥ 30x30	(* Improved cementitious adhesives resistant to slip with long open time (Class C2TE - EN 12004) and highly deformable (Class S2 - EN 12002)

(* For large size tiles laid at a height of more than three metres, certain international regulations specify that tiles should be laid using a mixed system of adhesive and mechanical fixtures chosen in relation to the weight of the tile, height of the tiling and site conditions.

When laying at low temperatures or if rapid use of the tiled surface must be guaranteed, you are recommended to use rapid setting improved cementitious adhesives (Class C2F - EN 12004).