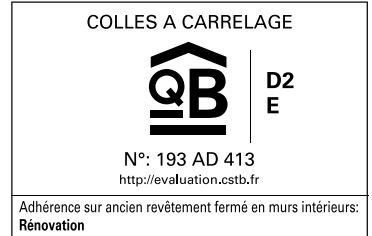




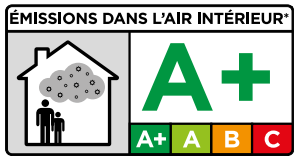
# POWERPLAST D2

Ready to use adhesives for high performance, for internal walls

- Suitable for a wide range of substrates
- Ready to use
- Easy use for everyone
- Does not require professional equipment
- Wide selection of packages
- Tested in accordance with EN 12004, D2 TE
- **CE**



Certificate QB n° 193 MC 413



## TECHNICAL FEATURES:

Ready to use adhesives based on water dispersion, acrylic resins, mineral charges and additives, with good characteristics of elasticity and adhesion.

## AREAS OF APPLICATION:

- Interior laying of ceramic tiles coverings, natural stone (must be water stable), glass mosaic
- Laying of polystyrene boards
- Suitable for damp areas
- Product limits: the adhesive hardens by evaporation of its own water content, therefore avoid laying non-porous tiles on non-absorbent supports.



TECHNICAL ASSISTANCE



INSURANCE GUARANTEE



TECHNICAL ASSISTANCE



INSURANCE GUARANTEE

## CONTRACT ITEM SPECIFICATIONS:

Wall coverings must be laid with a ready mix adhesive, flexible, trowelable on thicknesses up to 5 mm, tested in accordance with EN 12004 class D2TE like POWERPLAST D2TE of Benfer.

### SUITABLE SUBSTRATES:

- Concrete
- Cement-based screeds, standard or heated with water system
- Fluid cement-based screed, standard or heated with water system
- Anhydrite screed, standard or heated with water system
- Old ceramic tiles
- Cement-based plaster
- Gypsum-based plaster
- Gypsum-based board
- Plasterboard standard or waterproofed
- Wooden boards
- Polystyrene boards (specific for tiling)
- Elastomeric waterproof membrane (ACQUASHIELD-GEL)

---

### MAXIMUM SIZES:

- Internal walls coverings with maximum length of longest tile side up to 45 cm
- See the choice guide to verify size limits by tile/substrates characteristics.
- 



## **METHOD OF USE:**

### **SUBSTRATES PREPARATION:**

Substrates must be solid, able to withstand the load of the ceramic tile covering, free from oil, fat and dust. Any paint must be in very good condition, washed and degreased, otherwise it's necessary to removed it. The substrates must have completed their hydraulic shrinkage and have residual humidity lower than 4%.

Do not use on non-absorbent substrates for laying tiles with absorption lower than 3%.

### **PRODUCT APPLICATION:**

The application of the ready mix adhesive takes place by choosing the appropriate trowel, depending on the size of the tiles to be laid.

We recommend the use of a trowel with triangular-teeth 6 mm wide for mosaics up to 2.5 x 2.5 cm and a trowel with square-teeth 6 x 6 cm or 9 x 9 wide for increasing sizes.

It is always necessary to leave a joint at least 3 mm wide between tile and tile and to respect even in the ceramic tile coating the expansion joints of the structure, to be sealed elastically as well as the joints between wall and wall.

In any case expansion joints and perimeter joints must be carried out every about 20 m<sup>2</sup>.

### **FULL SERVICE:**

At 23°C and 50% of relative humidity, the open time is about 30 minutes. In unfavourable conditions this time can be reduced considerably, so it is recommended to apply the adhesive gradually and to check often which has not been made the film surface before lay the tile.

To improve the workability especially in summer, it is useful to removed air draft.

During the first 48 hours after laying, the adhesive is sensitive to the frost.

The walls made with POWERPLAST D2 are walkable cautiously after about 24 hours for grouting (48 hours for temperatures lower than 15°C). Fully loadable after 7 days.

### **ADVICE:**

- Do not use at temperatures below 5°C.
- Do not use outdoors or in locations continuously washed or immersed in water.
- Do not lay with POWERPLAST D2 non-absorbent tiles on non-absorbent material because the adhesive cannot dry out.
- Always leave a joint between the tiles especially if substrates are subject to bending or movement.
- Do not use on metals.
- Product in paste form cannot stand the frost.

**CLEANING:** The tools are cleanable with water.

**PACKAGING:** 25, 15, 8 or 3 kg buckets.

**STORAGE:** In unopened original packaging, protected from frost and heat.

**SHELF LIFE:** 12 months.

**CONSUMPTION:** The consumption changes according to planarity of the support, to the used trowel and to the laying system (simple or double gluing).

Support	Tile surface	Laying System	Trowel type mm.	Consumption kg/m <sup>2</sup>
Interior wall	S < 500	simple gluing	6	3
	500 < S < 1100	double gluing	8 / 9	5 / 5,5

#### PRODUCT TECHNICAL DATA

Classification according to EN 12004:	D2 TE
Basis:	Soft dough
Colour:	White
Storage and Duration:	12 months in the original closed package in a cool dry place
Danger of toxicity:	No
Inflammable:	No
Mixture ratio:	Ready to use
Mixture consistency:	Creamy
Density:	1,65 kg/dm <sup>3</sup>
Application temperature:	From + 5°C to + 35°C
Pot life:	30 minutes
Open time:	About 30 minutes*
Maximum thickness:	5 mm
Foot traffic after:	24 hours*
Grouting:	24 hours*
Full service:	7 days*
Final hardening:	14 days*
Shear adhesion strength resistance:	> 1,0 N/mm <sup>2</sup>
Shear adhesion strength after immersion in water:	> 0,5 N/mm <sup>2</sup>
Shear adhesion strength after thermal aging:	> 1,0 N/mm <sup>2</sup>
Shear adhesion strength after high temperature:	> 1,0 N/mm <sup>2</sup>
Temperature resistance:	From -30° C to +90° C
* at 23°C and 50% relative humidity	

PLEASE NOTE: The information given in this chart is based on our best experience and indicative only. It must in any event be verified by the end user, who assumes all liabilities deriving from utilization of the product.