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**PRODUCT DESCRIPTION** High performance hydraulic micromortar made from calcic cements and marble sands of different grain sizes, aside from other additives that, mixed with the above, furnish it with magnificent physical, chemical and aesthetic properties. It is used to produce highly decorative continuous lining that has a cement and mineral-like appearance; on floors, walls, bathtubs, sinks, and so on. It is inspired by Tadelakt, an Arabic word that means tight and burnished earth or plaster and refers to the use of the technique/material, employed in North Africa, although its origin and circulation are situated in the Roman Empire.

□ Note: mortars or hydraulic linings are those that set when they come into contact with water and atmospheric linings are those that set when in contact with air.

**SUGGESTED USES** Wall and floor decoration in hotels, offices, business premises and shopping centres, schools and nurseries, hospitals and museums. The product offers magnificent qualities, including:

- The provision of a continuous lining.
- Fire-resistance (due to its mineral nature).
- Breathability (permeable to molecules of water vapour).
- Due to its crystalline structure, it reflects light and heat radiation.
- Aseptic (high alkalinity of 12.5).
- Anti-static.
- Low allergenic levels.
- Excellent aging, due to the action of the CO<sub>2</sub> it becomes progressively harder.
- High resistance to rubbing/wear.
- High adhesion.
- High flexibility for a mineral lining.
- Low thermal diffusion.
- In its most basic finishing technique, smooth burnishing, it blends the stylistic contrasts well and does not affect the decorations.



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The possibility to use it on combined areas, as we can use the same decoration on floors and walls.

Clean on-site and not overly complicated procedure, in comparison to other systems/materials.

**PHYSICAL LOCATION** Indoors and outdoors, indoors it can even be placed in aggressive environments (bathrooms and kitchens) with the appropriate protection product detailed below.

Although Polished Cement is very tough, it is absorbent like many marbles and/or stone materials and consequently requires treatment to prevent the penetration of substances that affect its aesthetic.

We provide sealing protection to all surface as detailed below.

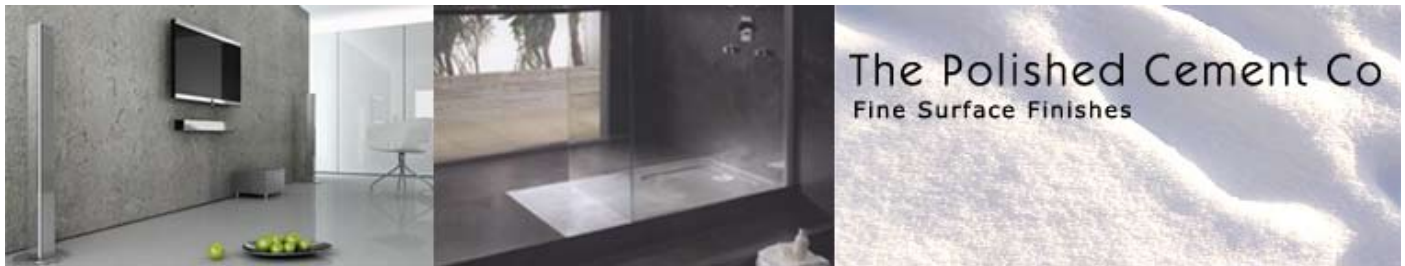
#### TECHNICAL INFORMATION

PH: 12.5 □ 0.5 MIXTURE DENSITY: 1.8 □ 0.05 g/cm<sup>3</sup>

PRESENTATION: 1 container with Component A, in powder form. 1 container with Component B, in liquid form.

SOLIDS CONTENT AFTER MIXING THE TWO COMPONENTS: 76%

PACKAGING:



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## TECHNICAL APPLICATION DATA

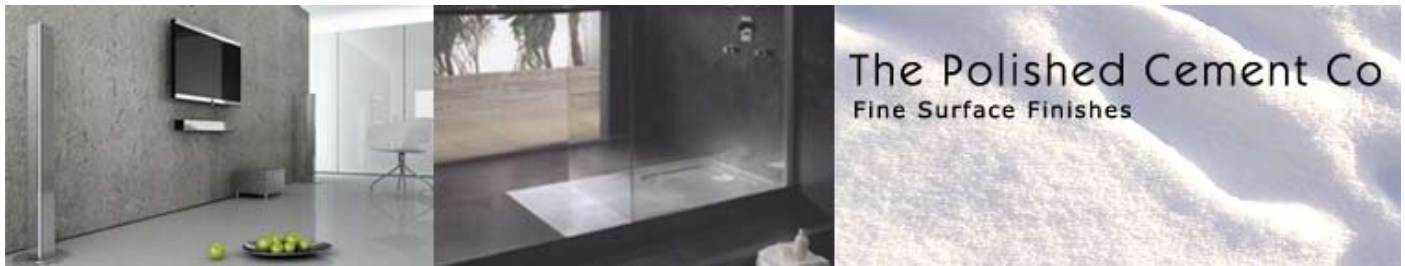
**FINISH:** Matt or high satin finish, depending on the amount of polishing (compacting) of the finish layer with the trowel. **COLOUR:** 20 obtained from the TONERS/TINTS from the Colour Range, added to the neutral POLISHED CEMENT (i.e., as it appears after mixing). Other colour references that can be used.

\*Note: To achieve the colour intensities shown in these Colour Ranges, 3 200ml Toner/Tint containers have to be added to the POLISHED CEMENT (mixture of Component A + Component B = 21.4 Kg.), as it has to be taken into account that upon application of the chosen protection product, the final tone increases (wet effect).

**DISSOLVENT:** Water (if water is added, dilute all of the containers by the same amount).

The mixture of Component A + Component B gives a relatively pasty/thick mortar so that it can be applied well to “vertical” areas (walls) and to avoid it detaching, as we can always dilute it with water in other types of applications, for example on floors for a more dynamic application.

To apply a layer by spilling and levelling with a trowel or finishing trowel, dilute with 5% water (approximately 1 litre). If you choose an intense colour, the POLISHED CEMENT shall remain sufficiently fluid with the addition of Toner/Tint, and it shall therefore not be necessary to dilute it with water, or use only 3% water if it becomes necessary. **MAXIMUM THICKNESS PER LAYER:** 3-4 mm.



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## APPLICATION CONDITIONS

- On outdoor walls and interior-exterior floors, it can only be applied to industrially manufactured mortar renderings and supports and shall fulfil regulations according to use/function to avoid dosing errors during application resulting in shrinkages and detachments.
- If the rendering or support is slightly gritty, apply the PRIMER first.
- The presence of salts (sulphates, nitrates, chlorides, etc.) and old stains from damp in the support may result from the slow evaporation of water in the construction materials (adverse weather) or due to the continuous or seasonal presence of moisture in the wall (rising damp, leaking pipes – drains and moisture of a capillary nature). The first cause is easy to remedy, the salts are washed away and an anti-salt treatment can optionally be applied. The second cause is a more serious problem that cannot be solved by means of surface treatments, instead requiring the repair of the building. Consequently, if the causes are not resolved, we do not recommend the use of our POLISHED CEMENT system.
- In areas where there is moisture due to condensation (though an unbroken thermal bridge) our POLISHED CEMENT system should not be applied.
- If the support has cracks, check whether they are static or dynamic. If it is found that the cracks are unstable or dynamic as a result of structural problems, it is best not to use POLISHED CEMENT as a finish. If it shows signs of cracking due to mortar shrinkage, calculate the length of time that it has been applied to know if the cracking has stopped.
- Also examine the specific parts of the building that correspond to areas where there is an accumulation of stresses deriving from its construction that could cause the appearance of cracks in the lining, such as: structural dilatation joints, meeting points between different materials.
- Moisture from inside, i.e., water that penetrates the POLISHED CEMENT where it is attached to the support (negative pressure) can cause serious damage.
- On walls, plasterboard panels, perlite plaster and gypsum products carefully clean the dust and generously apply one or two coats of primer.



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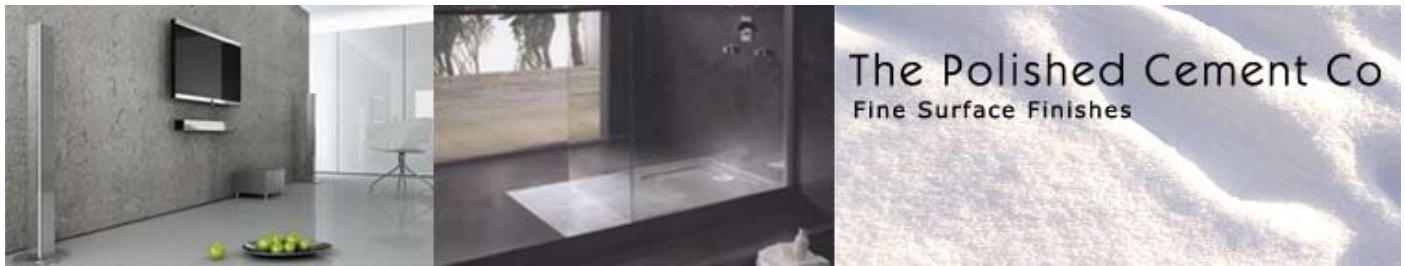
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#### Location and use of the building.

Working temperature of both the environment and the support (indoor-outdoor) Minimum of 7°C and maximum of 32°C (slightly moisten hot supports with water). Even if the temperature is 7°C, do not apply the layer of POLISHED CEMENT in adverse weather conditions (sudden drop in temperature) because at this temperature, it takes time to expel the water contained and it can freeze.

#### General observations

- When plastering bathrooms, there must be good ventilation for the wall to dry quickly and to avoid the fast proliferation of lichen and mildew.
- Before putting the self-adhesive stencil template in place for the creation of decorative motifs or other types of masking, wait until the render has hardened.
- When working outdoors, it is necessary to apply the appropriate protection product (described below) to prevent bleeding of bright colours due to contact with rainwater and rapid tarnishing in certain locations due to environmental pollution.
- If applied to special types of concrete or mortar, be careful with the additives contained and try to find out about these in order to make the right choice (release agents, anti-shrinking agents, anti-freeze, thinning agents, set accelerators, plasticizers, etc.).
- If indoor and outdoor walls and floors have obvious problems (moisture of a capillary nature, moisture due to condensation, moisture due to filtration, movement of the support, etc.), do not apply this material before they have been resolved or the treatment has been applied to solve these problems.
- Respect structural dilatation joints.
- If the functional or decorative quartering is carried out using masking tape, remove it before the POLISHED CEMENT has set.
- Floors made with POLISHED CEMENT only permit human traffic/transit.
- This material can be refined (remove small imperfections and rough edges) with sandpaper number 320 and polished with number 600-800.



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- In the production of bathtubs, sinks, and so on, the basin has to be fitted well; with the prior application of the appropriate mortar and brickwork to avoid leaks.
- In works on floors and walls presenting a large surface area, above all on the last layer, and that cannot be finished in one day, a layout or intentional partitioning shall have to be considered.
- Depending on the way it is applied, as it is an artisan process, the final “drawing” can change.

**PROTECTION FOR POLISHED CEMENT** In certain locations, such as: façades, bathrooms, floors in general, shelves, corridors, etc., to prevent dirt or other contaminants and to prevent bleedings of colour from penetrating, one of our protection systems described below must be applied:

- ACRYLIC PENETRATION PROTECTION/Floors and Walls.
- POLYURETHANE PROTECTION AGAINST WATER/Floors and Walls.
- PROTECTOR FOR STUCCOS AND MINERAL SUPPORTS/Floors and Walls.
- SILOXANE PROTECTION FOR MINERAL SUPPORTS 1/5-Walls.
- POLISHABLE WAX/Floors and Walls.
- SELF-POLISHING WAX/Floors and Walls.
- SOAP WAX/Walls, in this case indoors and away from direct exposure to water. It can be used to provide greater shine if necessary.
- COLOURED COLOURLESS WAX/Walls, with the same determinants as above.

\*Consult the technical descriptions of each protection product in order to use them correctly, study the application techniques and apply them to the correct material. If in doubt, consult our technical department. When fitting sinks, bathtubs and so on, consult our technical department before carrying out the work.



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#### TECHNICAL DETAILS REGARDING THE MATERIAL APPLIED AND DRYING HARDNESS:

140 Shore C Units after 30 days.

RESISTANCE TO FLEXOTRACTION: (UNE-EN 196-1: 1996)

3 N/mm<sup>2</sup> after 1 day.

7 N/mm<sup>2</sup> after 7 days.

8 N/mm<sup>2</sup> after 28 days.

RESISTANCE TO COMPRESSION: (UNE-EN 196-1: 1996)

5 N/mm<sup>2</sup> after 1 day.

12 N/mm<sup>2</sup> after 7 days.

18 N/mm<sup>2</sup> after 28 days.

ADHESION: 8.5 kg/cm<sup>2</sup>

RESISTANCE TO ABRASION: Excellent, following a minimum hardening period of 30 days.

PERMEABILITY TO WATER VAPOUR: Sd = 0.30 m (KÜNZEL)

REFRACTION OF LIGHT (WHITE): 80%

EASE OF CLEANING: Excellent after 28 days, but the material is absorbent and as such it is necessary to apply one of the protection products, in order to avoid the penetration of stains and dirt.

PRECAUTIONS: alkaline material, protect eyes and skin.

If you have any questions concerning the application of POLISHED CEMENT please call or email.

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