



## AT A GLANCE

- Apt for Drinking Water deposits
- Eco-binder technology
- Environmental friendly
- 100% mineral-based
- VOC and APEO free
- Salt-water resistant
- Resists some negative water pressure
- Water Proof up to 4 bar pressure
- Chemical resistant
- Easy application
- Application with a pump
- Indoor and outdoor use



## DESCRIPTION

ProEco Crete WP Pool is an advanced, professional grade water resistant mortar made from selected additives, aggregates and special cements. It is suitable for pools, water tanks and seaside walkways.

ProEco Pool does not suffer from shrinkage. When mixed with water it produces a homogeneous liquid mixture with excellent workability and easy application. It has a very strong adhesion. If the substrate permit it you can create a joint free surface with high resistance to hydrostatic pressure.

ProEco Pool can be used for areas with heavy exposure to salt water. It can also be used for fountains, pools, showers etc. Due to some resistance to negative pressure it can be used as decorative layer for basement walls with capillary moist.

Its formulation is based on harmless, VOC-free non-hazardous raw materials. This permits its use in contact with portable water without any further protective measures.

## PROPERTIES AND AREAS OF APPLICATION

- Eco-binder technology
- Low in chromate according to TRGS 613
- High resistance to salt water and chemicals
- Resistant to sulfate according to DIN 4030, exposure class XA2
- Can be in contact with drinking water according to DVGW W 270 and W 347
- Environmental friendly
- 100% mineral based
- VOC and APEO free
- Fast stress-free curing
- Salt water resistant
- High chemical resistance (pH 3 - 14)
- Easy application
- Application with a pump
- For use both indoors and outdoors
- For decorative applications in permanent contact with water
- Showers, fountains, pools etc.



## TECHNICAL PROPERTIES AND CHARACTERISTICS

<b>Composition</b>	<b>Special Cements, binders &amp; fine aggregates</b>
Compressive strength (N/mm <sup>2</sup> )	27 N/mm <sup>2</sup>
Flexural strength (N/mm <sup>2</sup> )	7 N/mm <sup>2</sup>
Abrasion Resistance	BCA AR 1.0
NB. The application of ProDuro 360 is an essential treatment to maintain the correct level of abrasion resistance.	
Application temperature	Min. +5 °C, max. +35 °C
Adhesion	1,85 Mpa - 28 days on Concrete
Application thickness	2 - 4mm
Consumption	2,0 kg/m <sup>2</sup> /mm thickness Minimum thickness 2-4 mm
Mixing ratio	5.50 Ltr. water per 25 Kg powder (19-20 %) Mixing ratio can change depending on aggregates - please consult
Opening time:	Approximately 60 min at 20° C. The opening time depends on a lot of factors such as wind, air and substrate temperatures. Furthermore, drying time is dictated by the product temperature and the water used. For these reasons we always recommend to test a small area prior to starting full coverage.
Test sample:	Test made with 19.60% of water in standard grey. After treated with 100 ml of Pro-duro 360/m <sup>2</sup> .

Light load	Fully loadable (Interior)	Fully loadable (Exterior)
24 hr	14 days	28 days

### Anti-slip surfaces

ProEco Crete WP Pool can be seeded or applied with aggregates to create anti-slip surfaces. Consult our technical department for further information. ProEco Crete WP Pool can be used on sea side walkways, when seeded with aggregates.



### Substrate preparation

Before starting with the application, ensure that the surface is stable and has sufficient surface tensile strength. It is important also that the surface is clean and free from old coatings, lime, surplus from the cure of mortars, dust and loose particles.

We recommend a mechanical surface preparation like shot blasting, sanding, grinding or milling. To secure adhesion the substrate must have open pores. ProEco Pool must have a solid base if being under water pressure. It should be a solid concrete structure. If applied on absorbent substrates like concrete blocks, bricks, cement plaster, the substrate should be pre-wetted to reduce surface absorbency. Apply on dull-moist puddles-free surfaces.

The surface should be permanently vibration free and crack free. Existing cracks in the floor base must be repaired professionally prior to the application of ProEco Pool.

Very absorbent substrates should be primed with ProEco Primer A3. the surface the absorbency of the substrate is adjusted, to secure and even cure and avoid air bubbles in the final layer of ProEco Pool.

Apply a further layer of primer if necessary. Reapplication of the primer must be done within 2 - 6 hours of the first application. Please read the technical data sheet on ProEco Primer A3 for more information.

ProEco Pool should be applied within 2-6 hours of the application of the primer. ProEco Pool is often applied in very thin layers. If you apply thin it requires a very well leveled base.

### Mixing and application

Mix the material with a mechanical mixing machine. Fill with the required amount of water (5.50 liters per 25kg powder material), followed by the powder material that is added while stirring.

**DO NOT MIX PROECO POOL WITH ANYTHING BUT WATER.**

A small test should be carried out before the application to adjust the correct amount of water to use in the mix and to test the setting time. Air flow, temperature, humidity in the air and substrate, influence on the product's workability and drying time. There can also be small variations in the mixing rate depending on the color and pigments or decorative aggregates used.

We recommend the use of a HIPPO MIXER or similar. The material has to be mixed intensely for 2 minutes, left to set for 3-5 minutes and then mixed again for 1 more minute. Mix the material till it homogenous and lump free. Pot life is approximately 1 hour.



### Slurry

First layer of ProEco Pool is brushed onto the surface with a broom with stiff brushes or applied with a hand trowel. The second layer should be applied after 2-6 hours after the first application. The slurry can be seeded with aggregates to create decorative and or anti-slip surface

### With decorative aggregates

Apply ProEco Pool with hand trowel. Apply a second layer within 2-6 hours after the application of the first layer. If the first layer has cured for too long, the pores should be opened and primer applied.

### Curing

Maintain the surface wet/moist and cure wet for 14 days to 1 month. Avoid extreme heat and cover with plastic to avoid direct sunlight and evaporation of the moist.

### Finishing

To achieve a higher abrasion and chemical resistance an application of ProDuro 360 is mandatory. Sanding is possible after 14 days. If seeded with aggregates the floor can be grinded after 14 days, but best to wait 1 month. Please contact our technical department for the right sealing system for the correct use in each case. Please refer to the respective data sheets for more information if required.

### Special precautions

The application has to be protected from drying too quickly (due to either drafts or intense heat from the sun) for at least 14 days. Moisten the surface and cover it with plastic. Some minor color differences are inevitable due to different production batches and this should be taken into account during application.

If you have different absorbent surfaces we recommend priming with ProEco Primer A3 which will help achieve a more even application. If a uniform color is desired, it is necessary to work on those designated sections with the same batch number (see label). The product is cement based and changes in appearance due to changing working techniques, differences in temperature and substrate can cause lighter color shades in the finished surface.

Please take note that this product is a mineral/inorganic product. Product colors do not fully conform to the RAL code and therefore they should only be seen as estimated classifications.

The colors of floors made using ProEco Crete Pool are not always uniform which is a typical feature of cementitious-based products. Apart from the inherent nature of this kind of product, differences in the various colors and marks may also be caused by the way the product is applied. In order to guarantee a uniform appearance, it must be cast continuously without long gaps.

Wait 5-7 days till you are sure that the material is fully cured, till you start cleaning the floor with water.



### Tools and cleaning

Mixing device (drill mixer or pump), trowel, spiked shoes, roller and other tools should be washed with clean water and dried before and after application.

### Production, packaging, storage, safety and validity

ProEco Pool is sold in 25 kg (55lb) bags. Store bags and containers in a dry place and protected from extreme temperatures (best stored between 5-25°C) and direct sunlight. With the right conditions of storage, the product is valid for 12 months from the manufacturing date.

There is no mandatory hazard labeling for ProEco Pool. Avoid inhaling dust when opening packaging. Protect skin and eyes during the mixing process. Please refer to the Material Safety Data Sheet.

### LIMITED WARRANTY

Etonsurfaces warrants its materials to be of good quality and, at its option, will replace or refund the purchase price of any material proven to be defective within one (1) year from date of purchase.

The above remedies shall be the limit of Etonsurfaces' responsibility. Except for the foregoing, all warranties expressed or implied, including merchantability and fitness for a particular purpose, are excluded. Etonsurfaces shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the materials.