

SL ProCrete

Self-leveling topping

AT A GLANCE

Eco-binder technology
Environmental friendly
100% mineral-based
VOC and APEO free
Saltwater resistant

High abrasion resistance
High resistance to chemicals
Easy application
Application with a pump
Indoor and outdoor use

DESCRIPTION

SL ProCrete, an advanced professional grade self-leveling topping made using selected additives, aggregates and special cements.

For chemical and heavy traffic industrial environments.

With its very high abrasion resistance, SL ProCrete does not suffer from shrinkage. For the production of high performance and durable seamless floors.

Due to its unique strength at low volume, the material consumption is low. On site application of 250 m²+ per hour with a mixer-pump applicator.

Its formulation is based on harmless, VOC-free non-hazardous raw materials. Use in the food processing industry without any further protective measures.

PROPERTIES AND AREAS OF APPLICATION:

Eco-binder technology

Environmental friendly

100% mineral based

VOC and APEO free

Fast stress-free curing

Saltwater resistant

High chemical resistance (pH 3 - 14)

Extremely high resistance to abrasion

Easy application

Application possible with a pump

For use both indoors and outdoors

For areas with high mechanical loads and chemical usage such as garages, warehouses, production areas, airports and power plants

Applicable in layer with a thickness between 3mm to 50 mm



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TECHNICAL PROPERTIES AND CHARACTERISTICS

PROECO CRETE	WHITE BASE NW	LIGHT GREY LG	GREY BASE NG
Composition	Special Cements, binders & 0-1.2 mm aggregates		
Compressive strength (N/mm²)	40 N/mm²	38 N/mm²	40 N/mm²
Flexural strength (N/mm²)	11 N/mm²	10 N/mm²	12 N/mm²
Abrasion Resistance	BCA AR 1.5	BCA AR 1.0	BCA AR 0.5
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	Min. +5 °C, max. +35°C	Min. +5 °C, max. +35 °C
Application thickness	3 - 30 mm	3 - 40 mm	3 - 40 mm
Consumption	1,9 kg/m2/mm	2,0 kg/m2/mm	2,0 kg/m2/mm
Mixing rate	19-19,5% water (3,8-3,9 lts per 20 kg bag)	17-17,5% water (3,4-3,5 lts per 20 kg bag)	17-17,5% water (3,4-3,5 lts per 20 kg bag)
Opening time:	The opening time depends on the wind and the air and floor temperatures. The 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:	Light sanded and after treated with 100 ml of ProDuro 360/m2		

Notes:

SL ProCrete NW is created from a neutral white base. It can be pigmented to create white and very light colors. SL ProCrete LG cover light grey colors. SL ProCrete NG is a natural grey cement base to create natural cement grey colors and dark colors.

Light load	Fully loadable (Interior)	Fully loadable (Exterior)
24 hr	4 days	7 days

ANTI-SLIP SURFACES

SL ProCrete can be seeded with aggregates to create anti-slip surfaces.
Consult our technical department for further information.





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Substrate preparation

Before starting with the application, ensure that the surface is stable and has sufficient surface tensile strength. It should also be dry or slightly damp, clean and free from dust and loose particles.

Deeper cracks, holes and other defects must be filled and repaired with shot blasting, a mechanical surface preparation. 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 SL ProCrete.

It is important for the substrate to be dry for priming. The priming of the surface allows the absorbency to be adjusted, and to be secured, avoiding the formation of air bubbles in the final layer of SL ProCrete.

Application of a further layer of primer is possible if necessary but it must be done within 2-6 hours from the first application.

SL ProCrete should be applied within 2-6 hours of the application of the primer.

SL ProCrete is often applied in very thin layers. For this reason it is important to have a very well leveled and even base.

Mixing and application

To obtain a uniform coloring, the surface has to be pre-leveled and even. SL ProCrete is applied with a toothed trowel or a gauge rake and then passed over with a spike roller. The finer and longer the spikes are, the better result you will get. The layer thickness should be minimum 3 mm. For application of the second layer the pre-leveled underground has to be primed again.

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 used.

Mix the material using a mechanical mixing machine. Fill with the required amount of water, followed by the powder material that is added while stirring. We recommend the use of a hippo mixer or mixer-pump. The material has to be mixed intensely for 2 minutes, left to set for 3 minutes and then mixed again for 1 more minute. At the beginning of the mixing process the mortar is slightly creamy. Do not add water at this stage since the material will become more liquid.

We recommend sieving the dry mix through a mesh with 2-2,5 mm holes and another sieve with 2-3 mm holes after mixing. That will eliminate the risk of lumps caused by exposure to moisture during transport, storage or mixing.

We recommend the use of mixer pump or a semi-automatic charge mixer for large areas. Mixing time for 100kg of powder requires 4-6 min. After mixing, pour SL ProCrete onto the primed surface and distribute it with a pin trowel or gauge rake in the intended thickness. Pass over the fresh surface with a fine spiked metal spike roller. Make sure that the spikes are long enough, so you do not push the material.

With manual application it is important that the material rests 5 minutes after the mixing in order to liberate the air bubbles before pouring it on the floor. In this way, the risk of rising of air bubbles in the poured material is minimized and it gives a better and more uniform finish. Do not cover the finished surface with foils or other materials.



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Finishing

We recommend an application of ProDuro 360 to achieve a higher abrasion and chemical resistance. Before the application of ProDuro 360, the floor must be sanded or grinded. This will allow to open the pores and take off the soft surface layer from the curing. However, 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 (drafts or the sun) for at least 24 hours. Please take into account that during application, due to different production batches some minor color differences are inevitable.

To achieve a more even application with different absorbent surfaces, we recommend priming with an epoxy primer. 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, causing 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 SL ProCrete 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 sealer and floor is fully cured, till you start cleaning the floor with water.

Tools and cleaning

Mixing device (drill mixer or pump), trowel, spiked shoes, spiked roller and screed rake or pin leveler. All equipment should be washed with clean water and dried before and after application.



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Production, packaging, storage, safety and validity

SL ProCrete is sold in 20kg (44.1 lb) 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 SL ProCrete. Avoid inhaling dust when opening packaging. Protect skin and eyes during the mixing process. Please refer to the Material Safety Data Sheet.

LIMITED WARRANTY

Eton's S.r.l. 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 the responsibility of Eton's S.r.l. Except for the foregoing, all warranties expressed or implied, including merchantability and fitness for a particular purpose, are excluded. Eton's S.r.l. shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the materials.