

Proplast Silicate

Ready to use silicate based decorative textured finish coat for external and internal application



Description

Proplast Silicate consists of silicate, mineral fillers, cellulose fibres, pigments, polymers, rheological additives and water.

It is applied as a thin layer protective and decorative wall covering for internal and external application. It is a ready to use product that can be applied by trowel floating or spray to produce various types of textures and finishes.

Applications

- ▲ Wall coverings external and internal.
- ▲ Decorative textured finishes.
- ▲ As a component of the ETICS/EIFS systems.

Advantages

- ▲ Hydrophobic.
- ▲ Weather resistant for durable system.
- ▲ Highly vapour permeable allowing concrete or substrates to breath.
- ▲ Good thermal characteristics.
- ▲ Variety of decorative textured finishes.
- ▲ Variety of colors.
- ▲ Nonflammable.
- ▲ Easily cleaned.

Compatibility

Proplast Silicate complies with the requirements of ETAG 004.

Method of Use

Surface Preparation

Surfaces shall be sound, dry and clean from all contaminants.

Lightly abrade the substrate using mesh 60 grade sand paper to remove laitance. The application of this system is not suitable on gypsum based plaster, plastic and resin paints, varnish and oil-based paints, old water based paint and lime paint.

Prime the substrate using Proplast Universal Primer using a shorthair lamb wool roller or a soft brush at a rate of 5 - 8 m² per litre.

Technical Properties @ 25°C:

Appearance:	Pasty liquid with different grain sizes
Specific gravity:	1.7 ± 0.15 depends on texture type
Bond with substrate: EN 1542	≥ 0.35 MPa
pH: EN ISO 787-9	10 - 11
Thermal conductivity: EN 1745	0.7 ± 0.05 w/mk
Water absorption: EN 1062-3	0.4 ± 0.05 kg/m ² .h ^{0.5} (category W ₂)
Water vapour transmission: EN ISO 7783-2	130 ± 20 g/m ² .d (category V ₂)
Durability against freeze thaw:	Passes (Category W ₂)
VOC passing leed requirements:	≤ 40 g/ltr

For Proplast Universal Primer:

Appearance:	Pasty liquid with fine aggregates comes in different colours
Specific gravity:	1.45 ± 0.05
pH:	8 - 9

Proplast Universal Primer should be used as a bonding agent and a balancing pH system between the different substrates and the silicate plaster. This primer is a water-based system consisting of styrene copolymer binder. It also helps in the uniformity of coloration of the final coat.

After priming, at least 24 hours are needed before applying the silicate plaster.

Product Grades and Textures

Proplast Silicate comes with two different systems related to the final desired finish:

T type: is the normal textured uniform system; where the largest grain size appears uniformly on the whole finish.

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The T type comes with different large grain sizes which reflect in the final thickness.

S type: is the scratch type finish, where selected large grain particles will be spreaded in the finish and gives a randomly scratch effect on the finish. The size of these large grains effect the thickness of the applied layer.

The following table summarizes the system:

Structure Type	Min. thickness (mm)	Theoretical consumption (kg/m ²)
T1	1.0	1.7
T1.5	1.5	2.5
T2	2.0	3.4
T3	3.0	5.0
S1.5	1.5	2.6
S2	2.0	3.5
S3	3.0	4.0

Maintenance

To overcoat Proplast Silicate use either Procoat Silicate or Procoat Silicone protective coatings as per recommendations of respective technical data sheets.

Packaging

Proplast Silicate is available in 10 kg buckets and 25 kg pails.

Proplast Universal Primer is available in 18 litre pails.

Storage

- ▲ Proplast Silicate has a shelf life of 6 months from date of manufacture if stored in original closed packs in shaded temperature controlled conditions.
- ▲ Proplast Universal Primer has a shelf life of 12 month from date of manufacture if stored in original closed containers in shaded temperature controlled conditions.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

For further information refer to the Material Safety Data Sheet.

Fire

Proplast Silicate and Proplast Universal Primer are nonflammable.

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A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.