

Proplast Silicone

Ready to use, silicone based decorative plaster for internal and external applications



Description

Proplast Silicone is a highly flexible ready to use, thin-layer decorative plaster for internal and external applications. Proplast Silicone consists of a unique composition of silicone, mineral fillers, polymers and pigments that provides a superb quality decorative plaster can be easily applied by trowel on concrete or cement based substrates to produce a decorative finishing coat with excellent resistance to water and weather conditions for optimum durability.

Proplast Silicone is available in wide range of attractive colours and textures that provide a uniform and stable decorative appearance.

Applications

- ▲ To create a decorative textured finishing on building facades externally.
- ▲ Walls and partitions covering internally.
- ▲ As a final layer of the External Thermal Insulation Composite System (ETICS) from DCP.

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.
- ▲ Non-flammable.
- ▲ Easily cleaned.
- ▲ Environmentally friendly.

Compatibility

Proplast Silicone complies with the EN 15824 requirements.

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.

Technical Properties @ 25°C:

Appearance:	Pasty liquid with grain sizes fillers
Density:	1.7 ± 0.1 g/cm ³
Bond strength on concrete: EN1542	≥ 1.5 MPa Substrate failure
pH: EN ISO787-9	10 - 11
Thermal conductivity: EN1745	0.7 ± 0.1 W/m.K
Water absorption: EN1062-3	≤ 0.1 kg/m ² .h ^{0.5} (Class III, Low)
Water vapour transmission: EN ISO7783-2	≥ 150 g/m ² .d (Class I, High)
Durability against freeze thaw:	Passes
VOC:	≤ 40 g/ltr Complies with LEED

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 liter.

Proplast Universal Primer should be used as a bonding agent and a balancing pH system between the different substrates and the silicone 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 silicone plaster.

Application

Before the application, Proplast Silicone shall be thoroughly stirred using a slow speed agitator.

The material is applied with a stainless steel trowel. Different textures are obtained especially if a floating trowel is used where the working action can be done in circles, horizontally or vertically.

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Product Grades and Textures

Proplast Silicone comes with two different systems which is 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. The T type comes with different large grain sizes which reflects in the final thickness.

S type: is the scratch type finish, where a 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 on the thickness of the applied layer.

The following table summarizes the system:

Structure Type	Thickness of application (mm)	Consumption (kg/ m ²)
T 0.5	0.5 - 1.0	0.8 - 1.6
T 1.0	0.7 - 1.2	1.2 - 2.0
T 1.5	1.5 - 2.1	2.5 - 3.6
T 2.0	2.0 - 2.5	3.3 - 4.1
T 3.0	2.5 - 3.0	4.3 - 5.2
S 2.0	2.0 - 2.5	3.4 - 4.3
S 3.0	2.5 - 3.0	4.3 - 5.1

Packaging

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

Proplast Universal Primer is available in 18 liters packs.

Storage

- ▲ Proplast Silicone has a 6 months shelf life from date of manufacture when stored in original closed packs in shaded temperature controled conditions.
- ▲ Proplast Universal Primer has a 12 month shelf life when stored in original closed containers in shaded temperature contrlred 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 Silicone and Proplast Universal Primer are non-flammable.

More from Don Construction Products

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.