

## TERMOFLEX® PRO SOLID

paste-like silicate-silicone plaster, with great resistance to mechanical loads, aging and atmospheric influences, combining the advantages of the silicate and silicone plasters



### Scope of use

TERMOFLEX® PRO SOLID is ready for application colored paste-like thin-layer plaster, based on potassium water glass. It is designed for producing protective and decorative coverings with dragged or scratched structure on old or new mineral bases (cement, cement mortars and plasters, prefabricated concrete elements, thermo-insulation boards, gypsum plasters, gypsum boards, gypsum chipboards and others).

The plaster combines the good points of the silicate and silicone plasters and is very suitable for old bases, when renovating buildings and working with architectural monuments. The produced covering is extremely resistant to aging and weather conditions and when correctly applied guarantees prolonged life of the facade, hydrophobic properties and mechanical protection. When applied on the base, the plaster bonds not only mechanically but also chemically with it, which makes it extremely crack resistant. When applying it should be spread evenly and the drying process is a bit more sensitive to the environment temperature – which facilitates to a great extent the work process and makes it easy to application and structuring. It is suitable especially for regions with large temperature amplitudes, long winters and high air humidity.

The color design system ENERGY IN COLORS offers multiple variations for individual forming of color and structure, allowing for a choice between 2080 colors and 5 structures of decorative plasters.

TERMOFLEX® PRO SOLID is used as a finishing coat within the integrated thermo-insulation systems TERMOFLEX® CLASSIC and TERAPOR® ULTRA and is suitable both for newly erected buildings and old buildings – during the renovation process or the process of improving their thermo-insulation or facade.



### Properties

offered in more than 2080 colors and 5 structures	resistant to dirt and aging
excellent color durability	easy application and structuring
protection against, mold, mildew and bacteria	highly water vapour permeable (breathing)
highly resistant to mechanic loads	high resistance to weather conditions

## Composition

Homogenous paste-like mix based on potassium water glass and acrylate resins, modified with high-quality hydrophobic additives, organic binding compounds, mineral fillers and pigments.

## Packaging and Indicative consumption

### Package:

25 kg plastic buckets

### Indicative consumption:

Type of the plaster	Consumption
dragged (2,0 mm)	2,5-3,0 kg/m <sup>2</sup>
scratched (3,0 mm)	3,9-4,1 kg/m <sup>2</sup>
scratched (2,0 mm)	2,9-3,4 kg/m <sup>2</sup>
scratched (1,5 mm)	2,5-3,0 kg/m <sup>2</sup>
scratched (1,2 mm)	2,2-2,5 kg/m <sup>2</sup>

The consumption depends on the base roughness.

## Expiration date and Storage

Store and transport in tightly sealed original packaging in dry and cool place (best on pallets). Keep away from moisture!

The product is good for use 12 months after production date of an unopened original packaging.

## Instructions for Use

### Base Preparation

TERMOFLEX® PRO SOLID sticks to all mineral bases, which are strong bearing and do not contain separating substances (grease, bitumen, dust). The base should be strong, dry, load bearing, leveled and with all shrinking processes completed. The temperature of the base should not be lower than +5°C.

When renovating old covering, all loose or easily removable particles or paint leftovers should be removed from the base. The already cleaned old plaster should be patched up and the new plaster should possess the same hardness and structure as the old one. The rough base coat may be smoothed out with a leveling plaster.

At least 8 hours prior to plaster application, the base should be processed only once and thoroughly with TERMOFLEX® COLOR PRIMER, which should be dyed in a color maximum close to the plaster color. Highly absorbent surfaces should be primed in advance with POROGRUND® – POROUS BASE PRIMER prior to processing with TERMOFLEX® COLOUR PRIMER.

The moisture that penetrates the base might cause serious damage to the plaster and for that reason the premises and places subject to moisture impact should be hydro-insulated and integrated with hydro-insulation system HYDRO and SPRLIT PROTECTION<sup>2</sup>

## **Mixture preparation**

TERMOFLEX® PRO SOLID is ready for use! Stir well with an electric mixer at slow speed before use! If possible, prepare enough quantity for the whole facade.

**Do not dilute with water! Do not mix with other products!**

## **Application**

TERMOFLEX® PRO SOLID is applied on the base with a stainless steel trowel (at a 45 degree angle from the base), it should be spread out on the whole surface according to the grain size and then structured right away with a plastic trowel. Rougher structure may be attained with a trowel, which base is made out of cork or EPS. Depending on the direction of movement (circular, diagonal, horizontal, vertical) it may be reached different type of structure.

**Only wet plaster may be structured! Work uniformly, without interruptions!**

Plaster application should be performed on the whole wall without interruptions, using material with the same density and lot number. When using plasters with different lot numbers, they should be mixed together prior to application!

In case it is necessary the work to be interrupted, a self-adhesive tape along the line of work interruption should be mounted, the plaster structured and then the tape unstuck. After the break the work should continue from the same place, and mounting paper self-adhesive tape may protect the edge of the already filled and dried plaster.

Decorative elements made out of a different color plaster should be formed through lining the separate areas with self-adhesive paper tape. Right after plaster application the tape should be removed. After drying, the contours of the already plastered area should be lined with a protective tape and then the next color plaster may be applied, without staining the ready surface. After application of the plaster the tape should be removed immediately.

## **Attention!**

**Plaster application should be performed at dry weather at temperature of the base and environment from +5°C to +30°C and air humidity below 65%.**

**Do not use again already polluted material!**

**Freshly applied plaster should be kept from freezing for 24 hours!**

The applied on the facade plaster should be kept from direct sunlight, rain or strong wind (with a facade net)!

High air humidity and low temperatures may prolong significantly the necessary time for drying and may change unevenly the color!

Uniform color may be attained only within one production lot!

Development of the color tint depends on the base, temperature and air humidity!

When applying on integrated thermo-insulation systems, the value of the relative reflection coefficient should not be below 25!

Anti-mold additive within the plaster protects or slows down the action of mold and mildew, but cannot guarantee long-lasting effect against their growth!

**Hazard description:**

EUH208 - Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one(2634-33-5). May produce an allergic reaction!

**Hazard symbol:**

Not subject of the identification regulations.

Risk and Safety Statements	
P102	Keep out of the reach of children
P262	Do not get in eyes, on skin, or on clothing.
P302+ P350	IF ON SKIN: Gently wash with plenty of soap and water.

### Classification

Complies with the requirements of European and Bulgarian standards and measures up to:

European Standard	Class	Testing protocols
EN 15824	V2 W3 C	№ 6/29.04.2011

## Technical data

Testing protocols are issued by Testing protocols are issued by Construction Materials Testing Laboratory by Marisan and Kolev AD.

Parameter	Measure	Testing method	Testing result
Density in paste form	kg/l	EN ISO 2811-1	1,86
Water vapor transmission rate	g/m <sup>2</sup> *d	EN ISO 7783-2	40,00
Liquid water permeability	kg/m <sup>2</sup> *h <sup>0,5</sup>	EN 1062-3	0,095
Impact-strength	J	EN 13497	2,00
Adhesive strength with the base	MPa	EN 1542	0,35
Coefficient of thermal conductivity (λ)	W/mK	EN 1745	0,65
Non-volatile-matter content	% by weight	EN ISO 3251	82,1
Reaction to fire	-	EN 13501-1	class C

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