Sylitol® Finish 130
Sylitol® Finish 130-W

Silicate-based, weather-resistant facade paints, suitable for equalising coats.

Product Description

Ready-to-use facade paint, based on potassium silicate and organic stabilisers.
Sylitol® Finish 130/Sylitol® Finish 130-W is a weather-resistant facade coating, offering good opacity (hiding/covering power) and a high degree of whiteness, non-fading pigmentation, and is highly capable of capillary diffusion. Suitable for use on unpainted mineral renders/plasters, solid natural stones free from efflorescence, and fairfaced sand-lime brickwork. Also suitable for the renovation of existing, stable coatings of silicate paints and renders/plasters and for applying equalising coats on tinted Sylitol® facade renders, Capatect-Mineral-Leichtputze and Capatect-Mineralputze (mineral renders).

Sylitol® Finish 130-W is provided with a preservative against deterioration in the coating film due to fungal (fungi/mildew/mould) and algal attack.

Material Properties

- Weather-resistant.
- Allows sorption.
- CO_2-permeable.
- Doubly-silificating, quartz-reinforced.
- Proper adhesion due to silicification on mineral substrates.
- Easy to apply.

Packaging/Package Size

Sylitol® Finish 130

- **Standard product:** 15 litres
- **ColorExpress:** 1.25 litre, 7.5 litres, 12.5 litres

Sylitol® Finish 130-W

- **Standardware:** 15 litres

Colours

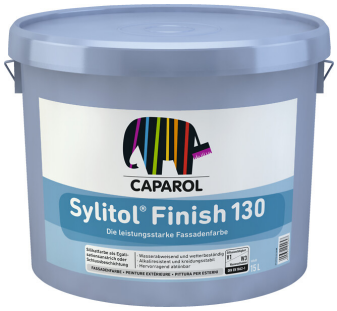
White.

Sylitol® Finish 130 (white standard product) is tintable with Histolith colourants (limitedly) and ColorExpress products can be tinted (limitedly) to all current colour collections via the ColorExpress tinting & mixing machine system.
White standard product Sylitol® Finish 130-W can be tinted with Histolith colourants.
Quantities of 100 litres or more in individual colour shades may be ordered ready-tinted ex factory.
Check tinted product before applying in order to avoid colour differences. Always use tinted paint of same batch, when applying on seamless surfaces. Brilliant, intensive colour shades may have a lower opacity (hiding/covering power). It is therefore advisable to apply a first coat in a similar hiding pastel tint, based on white. A second finishing coat may be necessary.

Colour Resistance according to BFS Data Sheet No. 26:
Binder / Class: B
Pigmentation / Group: 1

Gloss Level

Matt, G_3



Storage

Keep in a cool, but frost-free place.
Keep partially used containers tightly closed. Keep product only in plastic containers.
Shelf life: approx. 12 months.

Technical Data

Characteristics according to DIN EN 1062: Tinting may cause variations.

- Maximum particle (grit) size: < 100 µm, S_1
- Density: Approx. 1.5 g/cm³
- Dry film thickness: 100 - 200 µm, E_3
- Water permeability (w-value): ≤ 0.1 (0.08) [kg/(m² · $h^{0,5}$)] (low), W_3
- Water vapour permeability (sd-value): < 0.14 (0.02) m (high), V_1

Supplementary Product

Sylitol® Konzentrat 111, Sylitol® Minera

Suitability according to Technical Information No. 606 Definition of Application Areas

Sylitol® Finish 130

Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2
+	+	+	+	+
(–) inapplicable / (○) of limited suitability / (+) suitable				

Sylitol® Finish 130-W

Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2
–	–	–	+	+
(–) inapplicable / (○) of limited suitability / (+) suitable				

Application

Suitable Substrates

The substrates must be clean, sound/stable, dry, and free from all substances that may prevent good adhesion. In Germany: Follow VOB, part C, DIN 18 363, section 3.1.10 and 3.2.1.

Substrate Preparation

To obtain evenly coloured paint coats it is essential to provide for a constantly absorbent substrate. Weathered spray and scratch renders require after the base coat with Sylitol® Konzentrat 111 one roller applied structure-leveling intermediate coat of Sylitol® Minera. Intensively repaired and slightly cracked surfaces also require one or two liberally applied intermediate coats of Sylitol® Minera. Apply Sylitol® Minera with a paint brush on smooth substrates and use a paint roller on roughly textured surfaces. To avoid lapping, care should be taken to have a sufficient number of hands on the job. Apply the product wet-on-wet without interruption.
If more than one bucket is manually tinted, all product must be thoroughly mixed before use in order to avoid colour differences.

New and Existing, Sound/Stable ETICS with Surfaces of Silicate Render/Plaster, Hydraulic Lime Plaster (Plc), Lime Cement Mortar (PII) and Sylitol® Fassadenputz, Capatect-Mineral-Leichtputz & Capatect Mineralputz according to DIN EN 998-1 with Minimum Compressive Strength of 1 N/mm²:
Clean the surface of existing renders with suitable wet-cleaning method. Max. temperature limit for pressure water jet: 60 °C; allowable pressure: max. 60 bar. Allow surfaces to dry for a sufficiently long time. Coat with Sylitol® Finish 130 corresponding to existing finishing renders/plasters and substrate requirements as described below. Use Capatox for surfaces attacked by algae and fungi (mould), in compliance with current regulations. Coat with fungicidal and algicidal special paint Sylitol® Finish 130-W.

Renders/Plasters in Mortar Groups/Classes Plc, PII and PIII (Cement Mortars)/Minimum Compressive Strength according to DIN EN 998-1: 1 N/mm²:
New renders/plasters must be left untreated for a sufficiently long time, normally for min. 7 days at 20 °C and 65 % relative humidity (RH). Adverse weather conditions, influenced e.g. by wind or rain, extend the curing process and correspondingly longer holding times must be respected.
Clean soiled surfaces of existing stable renders/plasters manually or using e.g. pressure water jet or high-pressure water jet by adding quartz sand, in compliance with current regulations. Wet sandblasting is only possible for renders/plasters in mortar groups PII and PIII. Remove algal and fungal (fungi/mildew/mould) attack by wet blasting in compliance with current regulations and use Capatox according to processing instruction. Coat with fungicidal and algicidal special paint Sylitol® Finish 130-W.

Chalking Renders/Plasters:
Remove all adhesion diminishing chalking/fines layers with fluorosilicate Histolith® Fluat and rinse thoroughly.

Rendering with Sintered Skin:
Remove sintered skin (recognisable by a slightly glossy sheen) with fluorosilicate Histolith® Fluat and rinse thoroughly.

Render/Plaster Repairs:
Mortars used for surface repairs and filling cracks should always match the existing render/plaster in strength and texture. Particularly suitable are ready-mixed Trass-lime/Trass-cement based mortars. Repair patches must be allowed to set and dry thoroughly before the application of any paint. The treatment of repaired areas with fluorosilicate Histolith® Fluat is essential, always taking care to work in 1–2 widths of the brush beyond the repaired area. Rinse all repaired areas thoroughly. Where repairs cover relatively large surfaces, the treatment with fluorosilicate followed by rinsing should be extended to the full surface of existing and new renders/plasters.

Existing Coats of Mineral Paint:
Clean sound, adherent coats dry or wet. Remove unstable, weathered, poorly adherent coats of mineral paint (sand off, abrade or cauterise) and rinse the full surface thoroughly. Apply one priming coat of Sylitol® Konzentrat 111 (Concentrate).

Unsound Existing Coats of Emulsion Paint:
Remove thoroughly by suitable means, e.g. mechanically or using paint stripper and then high-pressure steam-jet, in compliance with local regulations.
Non-absorbent substrates, treated with paint stripper: Apply one priming coat of Sylitol® Minera.
Strongly absorbent substrates, treated with paint stripper: Apply one strengthening priming coat of Sylitol® Konzentrat 111 (Concentrate). Apply one intermediate coat of Sylitol® Minera.

Sound/Stable Existing Coats of Matt Emulsion Paint:
Remove all soiling and clean slightly chalking surfaces thoroughly by high-pressure water jet or other suitable means, in compliance with current regulations.

Sanding Render/Plaster Surfaces:
Clean by dry wire brushing and treat the full surface with a high-pressure water jet, in compliance with current regulations.

Silicate-/Mineral-Based Thermal Insulation Renders/Plasters:
Clean soiled substrates and algae infested surfaces carefully by water-jet using low pressure, in compliance with current regulations. Use a cleaning agent, if necessary. Do not clean by mechanical means. Use Capatox for algae or fungi (mildew/mould) attacked surfaces according to the manufacturer's recommendations. Coat with fungicidal and algicidal special paint Sylitol® Finish 130-W, if necessary

Fair-Faced Sand-Lime Brickwork:
Only frost-resistant bricks, free of inclusions that leave marks, e.g. clods of loam/clay or sand, are suitable substrates for applying coatings. Jointing must be free of cracks and free from any adhesion diminishing sealants or other materials preventing good adhesion. Remove salty efflorescence by dry wire brushing.
Chalking surfaces: Apply fluorosilicate Histolith® Fluat to the full surface and rinse with tap water. All joints (connections of roof, windows and floors) must comply with current national specification for the use of sand-lime bricks. In Germany: Follow BFS Data Sheet No. 2.

Treatment of Natural Stones:
Natural stones must be solid, dry, and free of efflorescence. Weathered stone surfaces are to be adequately solidified by repeated treatments with stone sealer Histolith® Steinfestiger before a coating is applied. Clean soiled stone surfaces using high-pressure water jet, in compliance with current regulations. Natural stones should not be repaired with render/plaster mortar, but with suitable stone substitute materials. Allow repairs to set properly, then treat in a technically correct manner with fluorosilicate and rinse with tap water.

Rising Damp/Moisture:
Rising damp will cause a prematurely deterioration of coatings. Only the application of a cross-sectional insulation is a durable problem solution. Alternatively the application of a restorative render/plaster system is a good and prolonged solution (e.g. Histolith® Trass-Sanierputz Program). Especially for old buildings it is advantageous to create "drying zones", i.e. zones facilitating the evaporation of moisture by providing a filter stratum of filler gravels between the plinth masonry and the soil.

Method of Application

Sylitol® Finish 130 is applicable by paint brush, roller and spraying equipment.

Airless application: Spray angle: 50°, nozzle size: 0.023" - 0.027", Spraying pressure: 150 - 180 bar. Stir the paint thoroughly and sieve before spraying.

Sylitol® Finish 130-W is applicable by paint brush and roller.

Surface Coating System

On Slightly and Evenly Absorbent Renders/Plasters, Fair-Faced Sand-Lime Brickwork and Primed Substrates:
After suitable pre-treatment, apply one priming coat of Sylitol® Finish 130/Sylitol® Finish 130-W, thinned to a max. of 10 % with Sylitol® Konzentrat 111 (Concentrate). Apply one finishing coat, thinned with Sylitol® Konzentrat 111, max. 3 %.

On Highly and Unevenly Absorbent Renders/Plasters, on Sanding Render/Plaster Surfaces as well:
After suitable pre-treatment, apply one priming coat of the mixture, Sylitol® Konzentrat 111 and water in a 2:1 ratio (by volumes), liberally by thoroughly rubbing with a brush. Prime two times wet-on-wet on highly absorbent renders/plasters. Apply one intermediate coat, thinned to a max. of 10 % with Sylitol® Konzentrat 111. Apply one finishing coat, thinned with Sylitol® Konzentrat 111, max. 3 %.

Equalising Coats:
Allow renders/plasters to cure for minimum 7 days, depending on weather conditions. Apply Sylitol® Finish 130/Sylitol® Finish 130-W, thinned to a max. of 3 % with Sylitol® Konzentrat 111, if necessary. Normally one working step is sufficient for equalising coats, tinted to match the plaster coating in shade. For a colourful surface design 2 working steps (first and finishing coat) are necessary.

Consumption

Approx. 150 - 250 ml/m² per coat on smooth substrates. On roughly textured surfaces correspondingly more. Determine the exact amount of material required by coating a test area on site.

Application Conditions

Lower Temperature Limit for Application and Drying:
+8 °C for product, substrate and ambient air.

Drying/Drying Time

Drying Time between Coats:
At 20 °C and 65 % relative humidity allow to dry for at least 12 hours between coats. Rainproof after 24 hours. Lower temperature or a higher humidity extend the drying time.

Tool Cleaning

Clean immediately after use with water, adding detergents, if necessary. During breaks keep tools dipped in paint or water.

Note

Luminosity/lightness index (LI) < 20 is unsuitable for ETICS/EWI systems.

An equalising coat of product has no technical-functional properties and is only applicable to avoid colour irregularities on coatings of tinted render/plaster.

Do not apply on sun heated substrates, during strong wind, fog or rain, high relative humidity or imminent rain and frost. Use scaffolding-nets, if necessary. Beware of night frost. Do not apply on enamels/varnishes, substrates with salty efflorescence, wood/timber or plastic materials. Do not apply on horizontal surfaces exposed to water/rain and moisture.
For slightly inclined surfaces (low gradient) proper draining has to be provided.
Mechanical loads/scratching on matt facade paints in dark shades may produce bright-toned stripes as a product specific property (no writing resistance).

In case of moist weather conditions (rain, dew, fog) yellowish transparent traces of additives, showing a slightly glossy shine and stickiness, may occur on the surface of compact, cool substrates or by means of delayed drying caused by the weather. The traces of additives are water-soluble and will disappear under the influence of a sufficient water quantity, e.g. repeated intensive rainfalls. The quality of the dried coating will not be affected by these changes. In case of direct reworking, all traces of additives must be pre-wetted and completely removed after a short reaction time. An additional priming coat of CapaGrund Universal must be applied. The traces cannot occur when the product is applied under suitable climatic conditions.

Facades in special climatic conditions (high moisture content) or subjected to a higher influence of atmospheric exposure: It is recommended to apply our special product Sylitol® Finish 130-W, provided with a preservative against deterioration in the coating fim due to algal and fungal attack to counteract organic growth (delaying infestation).

Touching up surfaces is depending on many parameters and may be visible after drying.
(In Germany: See BFS Data Sheet No. 25).

Rainwater run-off from copper (Cu ions in running water) reacts with ingredients of Sylitol® Finish 130 and then will lead to a brownish discolouration. Hence, all surfaces made of copper must be protected against oxidation by suitable means. Alternatively our products Sylitol® Fassadenfarbe or Histolith® SolSilikat can be used.

Compatibility with other Paint Products:
In order to maintain their specific properties, Sylitol® paints should not be mixed with other products (except the materials as described within this Technical Information).

Covering Measures:
Carefully mask surrounding areas of coating surfaces (see below: Safety Advice). Remove paint splatters immediately with tap water. Use scaffolding-nets during strong wind.

Construction Measures:
Cover overhanging building elements (as e.g. cornices, window ledges, coping of walls) properly in order to prevent soiling or moisture penetration in walls.

Surfaces with Salty Efflorescence:
Coating of such surfaces must be considered a risk for which we cannot accept responsibility, since even after the most thorough treatment the efflorescence may reappear.

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

Sylitol® Finish 130-W:
Harmful to aquatic life with long lasting effects. Keep out of reach of children. If swallowed, seek medical advice immediately and show the container or label (intestinal bacteria can be affected). Do not empty into drains, water courses or into the ground. Due to its potassium silicate content, the reaction of silicate based coatings is highly alkaline. Hence protect skin and eyes from paint. The areas adjoining the surface to be coated must be carefully masked, in particular glass, ceramics, enamel/varnish coating, clinkers, natural stones, wood and metals. Wash splashes immediately and completely with plenty of clean water. Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Apply by brush or paint roller only.

According to European Regulation 528/2012 this product is defined as "treated article" (not a biocidal product) and contains the following biocidal substances: Terbutryn (CAS-No. 886-50-0), Zink pyrithione (CAS-No. 13463-41-7), 2-Octyl-2H-isothiazol-3-one (CAS-No. 26530-20-1).

Please Note (Status as at Date of Publication)

Sylitol® Finish 130:
Keep out of reach from children. Use P2 dust filter for grinding. Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the paint. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Due to its potassium silicate content, the reaction of silicate based coatings is highly alkaline. Hence protect skin and eyes from paint. The areas adjoining the surface to be coated must be carefully masked, in particular glass, ceramics, enamel/varnish coating, clinkers, natural stones, wood and metals. Wash splashes immediately and completely with plenty of clean water.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be made to removing wastage from site in compliance with standard construction site procedures.
In Germany: Only completely empty containers should be handed in for recycling. Dispose containers with residues of liquid product via waste collection point accepting old paints and enamels. Dispose dried/hardened product residues as construction site/demolition/municipal or domestic waste.

EU limit value for the VOC content

of Sylitol® Finish 130 (category A/a): max. 30 g/l (2010). This product contains max. 15 g/l VOC.
of Sylitol® Finish 130-W (category A/c): max. 40 g/l (2010). This product contains max. 15 g/l VOC.

Product Code Paints and Enamels

Sylitol® Finish 130: M-SK01 (Germany)
Sylitol® Finish 130-W: M-SK01F (Germany)

Substances of Content - Declaration

Sylitol® Finish 130: Alkaline water glass, acrylic resin dispersion/emulsion, mineral pigments and fillers, water, additives.

Sylitol® Finish 130-W: Alkaline water glass, acrylic resin dispersion/emulsion, mineral pigments and fillers, water, additives, film preservatives (Octylisothiazolinone, Terbutryn, Zink pyrithione).

Further Details

See Material Safety Data Sheets (MSDS).

Technical Assistance

As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries. We will describe appropriate working methods, if a substrate not specified above is to be coated.

Customer Service Centre

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