



TIKKURILA

# FINNSECO KS

LIME CEMENT COATING

## DESCRIPTION

A two-component tinted lime cement coating (component A is in dry and component B in wet form). Forms a highly water- and water-vapor-permeable inorganic surface.

## RECOMMENDED USES

Residential, commercial, industrial and storage buildings etc.

## PRODUCT FEATURES

For coating concrete, lime cement rendered, calcium-silicate brick, light gravel block, aerated concrete (siporex), red brick and similar aggregate surfaces in accordance with the instructions for use.



# FINNSECO KS

## TECHNICAL DATA

<b>Base paints</b>	FKS BASE
<b>Colour Shades</b>	Colours marked in Tikkurila Facade colour map.
<b>Gloss</b>	Full matt. (6/RT classification)
<b>Coverage</b>	2–5 kg/m <sup>2</sup> /two treatments. Coverage varies depending on the roughness and porosity of the surface and the application method.
<b>Can sizes</b>	FKS BASE: 21 kg Not a base paint item: 20 kg
<b>Application method</b>	Brush, roller or spray with plaster spray gun or funnel spray gun (min. nozzle size 7 mm).
<b>Pot-life (+23°C)</b>	Hardening time approx. 1 hour.
<b>Drying time (23°C and 50% relative air humidity)</b>	Touch-dry after approx. 1-2 hours. Recoatable the following day. See the instructions for use.
<b>Weather resistance</b>	Suitable also for marine environment.
<b>VOC</b>	(Cat A/c) 40g/l (2010) Finnseco KS contains VOC max. 40g/l.
<b>Storage</b>	In dry place. Dry component away from floor, wet component protected from frost.

# FINNSECO KS

## APPLICATION INSTRUCTIONS

### Application conditions

The temperature of the air, coating and substrate must be at least +5 °C. Do not apply the coating in hot weather, when the site is exposed to direct sunlight, during rain or when rain is expected shortly.

### Surface preparation

Unpainted surfaces:

The surface has to be undamaged, hardened, clean and absorbent. The hardening time is affected by, e.g., the composition of the substrate (e.g. lime-concrete ratio), environmental conditions and the thickness of the layer.

Clean the unpainted surfaces of any dirt, dust and salt. Surfaces with mold, moss etc. are cleaned with Tikkurila Homeenpoisto in accordance with the instructions. Smooth, glassy concrete surfaces must always be treated mechanically to create an appropriate surface profile and remove any laitance. Concrete surfaces with a lot of pores are recommended to be leveled with Finnseco Polytop mortar or Finnseco Leveling Render.

Previously painted surface: Surfaces are cleaned by removing any dirt, dust or salt. Surfaces with mold, moss etc. are cleaned with Tikkurila Homeenpoisto in accordance with the instructions. Remove any flaking, chalky and poorly adhering paint coats. Choose the removal method according to the strength of the substrate and type of paint to be removed (e.g. wire brush, pressure washing with hot water or wet sand-blasting).

Perform the required repairs, patching and leveling with Finnseco products according to their instructions.

Where necessary, patch the rendering to the level of the surrounding surface and structure with appropriate rendering mortar.

Moisturize the substrate approx. 1–2 hours before starting work. Do not apply coating onto a wet and/or non-absorbent substrate.

### Patching

Patch opened cracks and potholes to the same level with the surrounding floor using Finnseco Repair mortar. Repair lime cement plaster with KS plaster of the same composition as the original plaster. Carefully finish the patched areas and allow hardening before painting.

Moisten the substrate carefully two hours before application. Do not apply the material on a wet and/or non-absorbing substrate. To avoid overlapping reserve enough coating for the entire area. Plan the work carefully e.g. by determining the location of working joints in advance. Place the working joints in corners, down pipes or in alignment with windows.

Mix the dry component (component A) to the wet component (component B) and add water until the correct application consistency is achieved. Leave for approx. 10 minutes and mix thoroughly before use. NOTE! Each portion mixed must be thinned with exactly the same amount of water and mixed for exactly the same time to avoid colour differences. White sublimate may occur in the finished coating due to the migration of water-soluble lime salts released from cement and lime. Make a test application to check that the colour and the finish are correct. Treat the surface with water during and after the treatment.

Spraying:

A coloured product is ready for use without thinning, whereas a light-coloured product may require adding water to find the right spraying viscosity. Conventional funnel (gravity-fed) or plaster spray guns are best suited for the work. The colour and structure of the coating vary depending on the consistency of the material, absorbing capacity of the substrate, nozzle size, amount of atomizing air and spraying distance. If the spraying takes place too near or if the material is too watery the surface will be uneven. Always apply two coats of Finnseco KS. To obtain an even surface apply the finishing coat from a cage truck. If scaffolding is used the finished surface may show shadows of the parts of the scaffolding. Also the marks caused by the fixing points of the scaffolding on the wall surfaces are difficult to repair.

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

# FINNSECO KS

## Brush and roller application:

Thin with approx. 1.5-2 litres of water/portion (40 kg). The use of a plaster brush is recommended. The best brushing result is achieved by spraying the material on the substrate and by brushing the surface with a stiff bristle plaster brush.

## Coating

The dry portion (component A) is mixed with the wet component (component B), and the required amount of water is added to reach a suitable viscosity. The mixed batch is left to moisturize for approx. 10 min. and is then stirred carefully before work starts. Finnseco KS treatment is recommended to be done twice. The coating must be treated with water both intermediately and afterwards. Spraying: The colored coating is ready to use without dilution, but to find the right spraying viscosity, it may be necessary to add water especially to light colors. Application by brush and roller: The product is diluted with water, approx. 1.5-2 l/mixing batch (40 kg). For best results, spray the coating and then brush with a stiff-haired slamming brush. NOTE! When treating a surface containing asbestos, follow the Government Decision on Asbestos Work (1380/1994) and the related Decrees 318/2006 and 863/2010. The shade and structure of the finished surface is affected by the viscosity of the mass, the absorbency of the substrate, the size of the nozzle, the amount of air spray and the spraying distance. Spraying done too close or with an excessively viscous mass will close, and the surface will be left uneven. To avoid working seams, reserve enough coating for the entire work location. To avoid differences of shade, each batch mixed must be diluted with the same amount of water, and the mixing time must also be the same. If water-borne salts freed up from cement and lime are brought to the surface, this may cause a white sublimate in the finished surface. To ensure the desired color and texture, it is recommended to make a trial surface before work starts.

## Cleaning of tools

Clean tools immediately after use with water.

## Maintenance instructions

Dirty surfaces can be carefully washed with a pressure washer without any detergent no earlier than one month after painting. The washing may leave permanent marks on the surface, so wash a logical area following the lines of the structure in order to avoid leaving conspicuous edges. Clean dry, loose dirt lightly with a soft brush, without rubbing the surface.

Remove alga or mold with Tikkurila Homeenpoisto (Mold Removal) and rinse thoroughly. NOTE! Surfaces must always be retreated after mold removal.

## Maintenance treatment

Surfaces treated with Finnseco KS lime cement coating can be maintenance painted with Finnseco KS lime cement coating, Finngard Silicate Paint, Finngard Silicone Resin Paint, Kivitex silicate paint or Kivisil façade paint.

## Environmental and waste disposal

Deliver empty packaging and hardened mortar to a recycling point or waste tip according to local regulations. Destroy powdery, unused render according to the local regulations for hazardous waste.

## HEALTH AND SAFETY LABELLING according to Regulation (EC) No. 1272/2008

**Contains:** Cement, portland, chemicals. **DANGER.** Causes skin irritation. Causes serious eye damage. Wear protective gloves and eye or face protection. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.



GHS05

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

# FINNSECO KS

EN 998-1:2010

CE	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa	
13	
TIK-1630-5007	
EN 998-1:2010	
Coloured rendering mortar (CR).	
Reaction to fire	F (NPD)
Durability	NPD
Adhesion strength by pull off test	≥ 0.3 N/mm <sup>2</sup> concrete (fracture pattern B)
Release of dangerous substances	NPD
Water absorption	W0
Permeability to water vapour	≤ 25

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.