



TIKKURILA

YKI OIKAISULAASTI

LEVELLING MORTAR

DESCRIPTION

Lime-cement-based, polymer-modified fiber-reinforced cement-based leveling mortar with a maximum grain size of 0.6 mm.

RECOMMENDED USES

Residential, commercial, industrial and storage buildings and others.

PRODUCT FEATURES

For leveling light-weight concrete block, light gravel block, concrete block and concrete surfaces.



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TECHNICAL DATA

Colour Shades	Grey
Coverage	Approx. 5–10 kg/m ² (approx. 2–5 mm layer)
Mixing ratio	Amount of water to be used: 4.5–5.5 liters water to 25 kg dry product.
Application method	Spray application with a plaster pump (min. nozzle size 7 mm) or manual application with a steel trowel. Finish with a steel trowel and/or cellular plastic float.
Pot-life (+23°C)	Approx. 1 hour.
Drying time (23°C and 50% relative air humidity)	Continue curing the repaired area (moisturization) by spraying with water twice per day for 2–4 days, depending on the layer thickness. The coating can be applied no earlier than two weeks after the application of leveling mortar. Apply the coating according to the instructions provided in its product data sheet.
Density (kg/l)	Ready mix approx. 2 kg/l
Adhesive strength (EN 1542)	Adhesion, N/mm ² : >1,5
Adhesive strength (EN 1015-12)	On concrete > 0.5 N/mm ²
Compressive strength	Approx. 10 N/mm ²
Dry shrinkage	Approx. 1.2 N/mm
Storage	In dry place (away from floor), protect from humidity.

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APPLICATION INSTRUCTIONS

Application conditions

The temperature of air, mortar and substrate must be at least +5 °C. You should not work in hot weather, direct sunlight or strong winds. In dry conditions, start curing in approximately two hours of applying the mortar.

Surface preparation

Treatment of block surfaces:

Clean the block surfaces of any dirt, dust and salt. Smooth any roughness mechanically and patch holes and cracks with Yki Oikaisulaasti 2–3 days before leveling, using the minimum amount of water.

More extensive patching of light-weight concrete surfaces should be performed with mortars suitable for that substrate type.

Treatment of concrete surfaces:

New concrete surfaces must be sufficiently dried and hardened before the treatment. Clean the unpainted concrete surfaces of any dirt, dust and salt. Treat concrete surfaces that have been cast with formwork mechanically (e.g. sand-blasting) to create an appropriate surface profile. Remove any glassy and glossy cement stone from the surface using sand-blasting, a grinding stone for grinding concrete or pressure cleaning with added sand.

More extensive patching of concrete surfaces should be performed with Finnseco repair mortars.

When treating a surface containing asbestos, follow the measures specified in Government Decree 975/2004.

Priming

Before starting to apply the mortar, prime light-weight concrete surfaces with Tikkurila Hydrosolipohjuste diluted with one part water to one part primer. Other surfaces do not require priming before being mortared.

Application

Preparing the mortar:

Mix the Yki Oikaisulaasti mechanically with water to an even consistency. Use 4.5–5.5 liters of water per sack. Let the mortar stand for approx. 10 minutes and mix again. The ready mortar should not be too thin or too thick. If the mortar is too thick to apply, you can add up to 0.5 liters of water to the mix. The maximum total amount of water per sack is 5.5 liters. Prepare an amount of mortar you can apply in 30 minutes from mixing.

Pre-leveling:

If necessary, pre-level the wall before applying the reinforcement coating of Yki Oikaisulaasti.

Moisturize the area to be leveled by spraying it with clean water approx. 1–2 hours before the pre-leveling. You can start the pre-leveling when the moisturized surface is no longer glossy.

Yki Oikaisulaasti is applied manually with a steel trowel or by spraying with a plaster pump. After application, smooth the surface with long, gradual strokes of the trowel's straight edge. After pre-leveling, the surfaces should be level enough to level with two coats of Yki Oikaisulaasti, to a total thickness of approx. 4–6 mm.

Mortaring work:

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.

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Mortaring wall surfaces:

Moisturize the area to be coated by spraying it with clean water approx. 1–2 hours before starting to apply the mortar. You can start working when the moisturized surface is no longer glossy.

Apply a 2–3 mm layer of Yki Oikaisulaasti onto the corners of the structure and apertures to be reinforced, to the width of a single corner reinforcement at a time. Place a Tikkurila Kulmavahvikeverkko onto the wet surface of Yki Oikaisulaasti and gently press the reinforcement into the wet mortar with a steel trowel. Do not push the Vahvikeverkko all the way to the bottom of the mortar. The mesh will be most effective if it remains as close to the surface as possible in this work stage.

Use the same method to affix corner reinforcements to the corners of the window and diagonal reinforcement pieces to the corners of all apertures. The frames of windows and doors are easy to finish with ready Tikkurila Pielilevy frame plates. For more detailed installation instructions, see the product data sheets of the reinforcement mesh, corner reinforcements and frame plates.

After installing the corner reinforcements, apply a layer of reinforcement mortar by applying a 3–4 mm coat of Yki Oikaisulaasti manually with a steel trowel or by spraying with a plaster pump. Place a Tikkurila Vahvikeverkko onto the wet surface of Yki Oikaisulaasti and gently press the reinforcement into the wet mortar with a steel trowel until the fresh mortar is pushed through the holes in the mesh. Do not push the mesh to the bottom of the fresh layer of mortar. Stop when enough fresh mortar to form an even layer on top is pushed through the mesh. Adjacent pieces of mesh must overlap by at least 100 mm.

After application, smooth the surface with long, gradual strokes of the trowel's straight edge.

Apply a second 1–2 mm layer of Yki Oikaisulaasti without a Vahvikeverkko after the reinforcement layer has dried for at least 24 hours. Depending on the temperature and humidity of the air, the mortar can be gently smoothed with a sponge float in approx. 20–40 minutes from application. The mortar can be float-finished when the mortar will no longer move with the float. You should always float-finish surfaces that will be painted with Kivisil Julkisivumaali.

Socle mortaring:

Moisturize the area to be coated by spraying it with clean water approx. 1–2 hours before starting to apply the mortar. You can start working when the moisturized surface is no longer glossy.

Apply a 2–5 mm layer of Yki Oikaisulaasti manually with a steel trowel onto the surface to be leveled. After application, smooth the surface with long strokes of the trowel's straight edge. Depending on the temperature and humidity of the air, the mortar can be gently smoothed with a sponge float in approx. 20–40 minutes from application. The mortar can be float-finished when the mortar will no longer move with the float.

Aftercare

Cure the mortared surface by moisturizing with clean water (spray) for 2–4 days, as required by the conditions.

Topcoating:

You can sand hardened Yki Oikaisulaasti if necessary. Clean the surface carefully of sanding dust before further treatment. Finish walls leveled with Yki Oikaisulaasti with Kivisil Julkisivumaali or Yki Rouhepinnoite and socles with Yki Sokkelimaali or Yki Rouhepinnoite. Finish surfaces coated with Yki Sokkelimaali or Oikaisulaasti with a paint or coating suitable for aggregate surfaces, e.g. Yki Rouhepinnoite.

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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. Loose dirt can be gently brushed off with a soft brush without rubbing. Remove mold or algae with Tikkurila Homeenpoisto and rinse well.

Environmental protection and waste disposal

Deliver empty packaging and hardened mortar to a recycling point or waste tip according to local regulations.

Health and Safety

DANGER. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Avoid breathing mist/vapors/spray. Wear protective gloves and eye or face protection. In case of inadequate ventilation wear respiratory 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



GHS07

YKI OIKAISULAASTI

EN 998-1:2010

CE	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa	
13	
TIK-1630-5011	
EN 998-1:2010	
General purpose rendering/plastering mortar (GP) & Reinforcement and levelling mortar for outdoor use.	
Reaction to fire	A 1
Durability	NPD
Adhesion strength by pull off test	$\geq 0,5 \text{ N/mm}^2$ (fracture pattern B)
Release of dangerous substances	NPD
Water absorption	W2
Permeability to water vapour	≤ 35

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