



TIKKURILA

AKVACOAT

EPOXY COATING FOR CONCRETE FLOORS / GLOSS

DESCRIPTION

Two-component water-borne epoxy paint.

RECOMMENDED USES

Industrial, repair shop and storage floors subject to light mechanical and chemical stress and the floors of garages, balconies, cellars, etc.

PRODUCT FEATURES

For painting new and old cement floors. Also suitable for cement floors treated previously with epoxy paint or coating. Can also be used for interior concrete, brick and mineral board surfaces. Only for professional use.



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TECHNICAL DATA					
Base paints	A BASE, CP BASE				
Colour Shades	Color cards: Floor paints. Can be tinted in Tikkurila colors. Color accuracy can differ from the sample. (CP base)				
Gloss	Gloss.				
Coverage	Priming 5–7 m ² /l Finishing 7–10 m ² /l The practical coverage is dependent on the roughness and absorbency of the surface.				
Can sizes	A BASE: 0.9 l, 2.7 l, 9 l CP BASE: 0.9 l, 2.7 l				
Mixing ratio	<table border="0"> <tr> <td>Base</td> <td>Akvacoat</td> </tr> <tr> <td>Hardener</td> <td>Akvacoat Kovete</td> </tr> </table>	Base	Akvacoat	Hardener	Akvacoat Kovete
Base	Akvacoat				
Hardener	Akvacoat Kovete				
Application method	Brush, roller or spatula application.				
Pot-life (+23°C)	approx. 1 hour				
Drying time (23°C and 50% relative air humidity)	Dust dry in 6 hours. Recoatable in 16 hours. Fully hardened after 7 days.				
Density (kg/l)	1.3 kg/l ready mixture, ISO 2811				
Volume solids (%)	60				
Storage	Protect from frost.				

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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APPLICATION INSTRUCTIONS

Application conditions

The relative humidity of the concrete should not exceed 97%. During painting and drying, the temperature of the air, surface and paint must be over +15°C and the relative humidity of the air below 80%.

Mixing components

3:1 (by volume) Paint, can be tinted 3 parts Hardener 1 part

Surface preparation

New cement floor:

Remove the laitance layer from the concrete surface by, for example, surface sanding or hydrochloric acid pickling. Remove laitance dust carefully after sanding.

Hydrochloric acid pickling is performed with a diluted solution (1 part concentrated hydrochloric acid, 4 parts water). Rinse the floor with plenty of water.

The substrate has to be dry, firm and solid before surface treatment.

Old cement floor:

Clean the floor and remove any grease, oil, chemicals and other impurities with Tikkurila Maalipesu cleaning agent, by sanding or blast-cleaning. Remove old peeling paint film by sanding. Open cracks, holes and hollows until sound concrete with e.g. an edge grinder. Remove loose material and dust. Fill hollows, opened cracks and holes with, for example, a cement-based filler or an epoxy filler. Sand the filled areas to the same level as the surrounding surface before painting.

Painting

The components are machine-mixed separately for 1–2 minutes before component B is added to component A. Add the hardener to the paint (3:1 by volume) and stir using a paint mixer attached to a power drill (mixing time approx. 3–5 min). Use a slow rotation speed. Careless mixing or an incorrect mixing ratio may put the work at risk.

Prime with Akvacoat Epoksimaali thinned 30–40% with water. The thinner is added to the ready compound and mixed carefully.

Finishing can be done 16 hours after priming, at the earliest. The finishing paint can be thinned max. 10–35% with water.

ROUGHENING:

Reduce the slipperiness of the painted surface by adding Liukueste non-slip agent to Akvacoat Epoksimaali. Begin by applying the first coat normally according to instructions. When Akvacoat Epoksimaali is dry enough to withstand walking (within 24 hours), apply a non-slip coating as follows. Thin Akvacoat Epoksimaali with 20 vol.-% water. Stir thoroughly with a paint mixer attached to a power drill. Add 1 can (0.3 l) of Liukueste non-slip agent to 10 liters Akvacoat Epoksimaali. Mix the components thoroughly using a paint mixer attached to a power drill. With a short-pile roller, apply the “non-slip paint” to the entire floor area or parts of it marked off with masking tape. If the non-slip treatment appears insufficient, improve it by applying a new coat after 2 hours of drying time. Note that during application, thick coats of paint will not harden properly, but will instead remain in a jelly-like form.

Cleaning of tools

Clean tools with water and synthetic cleaning agent. Tikkurila Pensselipesu Tool Cleaner is recommended to remove slightly hardened paint.

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Maintenance instructions

The painted surface will reach its final wear and chemical resistance approx. two weeks after the surface treatment. Avoid cleaning during this time. Clean the surface with a brush, mop or dust cloth. Dirty surfaces can be cleaned with a cleaning tool and a neutral (pH 6–8) washing solution.

Environmental and waste disposal

Avoid spillage into drains, water systems and soil. Destroy liquid waste according to the local regulations for hazardous waste. Recycle empty, dry cans or dispose them of in accordance with local regulations.

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


Contains: oxirane, reaction products with ammonia, N-benzyl derivative. **DANGER.** Causes skin irritation. Causes serious eye damage. Harmful to aquatic life with long lasting effects. Contains 2,4,6-tris(dimethylaminomethyl)phenol. May produce an allergic reaction. Avoid release to the environment. 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

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EN 1504-2:2004

	
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Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa	
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TIK-0101-5001	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO ₂	s _D > 50 m
Impact resistance	Class I: ≥ 4 Nm
Abrasion resistance	< 3000 mg
Reaction to fire	B _{f1} -s1
Adhesion strength by pull off test	≥ 2,0 N/mm ²
Release of dangerous substances	NPD
Permeability to water vapour	class I, s _D < 5 m
Resistance to severe chemical attack	Class II

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