TIKKURILA

SOLID EP-M

WATER-BORNE EPOXY PAINT

DESCRIPTION

A water-borne two-component water-vapor-permeable epoxy paint.

RECOMMENDED USES

Concrete floors on common spaces in apartment buildings such as sport equipment storages and washingrooms.

PRODUCT FEATURES

Solid EP-M is suitable for old and new concrete floors subjected to moderate stress e.g. in common spaces in apartment buildings and washingrooms. The product is also suitable for concrete floors previously treated with epoxy paint or coating. Only for professional use.

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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TECHNICAL DATA

Base paints	A BASE, CP BASE
Colour Shades	**Color cards:** Symphony Color System. Can be tinted in Tikkurila colors. Color accuracy can differ from the sample. (CP base)
Gloss	Gloss.
Coverage	Priming 5–7 m²/l Finishing 7–10 m²/l The practical coverage is dependent on the roughness and absorbency of the surface.
Can sizes	A BASE: 2.7 l, 9 l CP BASE: 2.7 l, 9 l
Thinner	Water
Mixing ratio	3:1 Paint (tintable) 3 parts by volume Hardener 1 part by volume
Application method	Brush, roller or spatula.
Pot-life (+23°C)	approx. 1 hour
Drying time	Dust dry 6 hours. Recoatable 16 hours. Fully cured after 7 days.
Density (kg/l)	1.3 kg/l ready mixture, ISO 2811
Volume solids (%)	60
VOC	(cat A/j) 140g/l(2010). Solid EP-M contains VOCmax. 140 g/l.
Storage	Protect from frost.

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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%.

Note! Epoxy products have a tendency to yellowing in sunlight.

Mixing components

Mix the components separately by machine 1-2 min before adding component B into the A. Add the B-component into the A-component (3:1 by volume) and mix with machine (mixing time 3-5 minutes). Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface, weaken the properties of the coating and risk the success of the application.

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

Prime with Solid EP-M 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 Solid EP-M. Begin by applying the first coat normally according to instructions. When Solid EP-M is dry enough to withstand walking (within 24 hours), apply a non-slip coating as follows. Thin Solid EP-M 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 Solid EP-M. 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. Clean tools with water and synthetic washing 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. 1 week 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 protection 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

Contains: polyoxypropylenediamine, oxirane, reaction products with ammonia, N-benzyl derivative. **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

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EN 1504-2:2004

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Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa	
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TIK-A027-2019	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO2	s_D > 50 m
Impact resistance	Class I: ≥ 4 Nm
Abrasion resistance	< 3000 mg
Adhesion strength by pull off test	≥ 2,0 N/mm²
Permeability to water vapour	class I, sD < 5 m
Resistance to severe chemical attack	Class II

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