TIKKURILA

SOLID EP-H 0229

A TWO-COMPONENT SOLVENT-FREE EPOXY PAINT

DESCRIPTION	A two-component solvent-free epoxy paint.
RECOMMENDED USES	Suitable for concrete floors in garages, laundry rooms, public spaces and other spaces where surfaces are subjected to hard wear.
PRODUCT FEATURES	For new and old concrete floors and for surfaces previously treated with epoxy paints. For professional use only.

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TECHNICAL DATA

Colour Shades	Gray ready-made-shade 0229.
Gloss	High gloss.
Coverage	Coverage on concrete floors is on the average: primer 4–6 m²/l and topcoat 6–8 m²/l. Practical coverage depends on the porosity and evenness of the substrate and on the application method.
Can sizes	2 l, 7.2 l
Thinner	Solid Epoxy thinner EP-H.
Mixing ratio	4:1 parts by volume Base 2,0 L+Hardener 0,5 L Base 7,2 L+Hardener 1,8 L
Application method	Trowel and roller
Pot-life (+23°C)	Approx. 20 minutes after mixing, on substrate.
Drying time	Dust dry after 4 hours Recoatable after 8 hours - 2 days Light trucking after 24 hours Fully cured after 7 days At lower temperature the curing process will last longer.
Density (kg/l)	1.7 kg/litre (mixture).
Volume solids (%)	approx. 100%
VOC	(cat A/j) 500g/l(2010). Solid EP-H contains VOCmax. 500 g/l.
Storage	Unaffected by cold storage or transportation.

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APPLICATION INSTRUCTIONS

Application conditions
The relative humidity of the concrete should not exceed 97%. The temperature of the ambient air, surface or coating should not fall below +15ºC during application or drying. Relative humidity of air should not exceed 80%.

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 (1:4 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
The substrate must have a tensile strength above 1.5 MPa. For application on cementitious leveling screed: check compatibility with the leveling screed manufacturer.
New concrete 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 concrfete 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.

Priming
Prime using Solid EP-H epoxy paint thinned 10–30 % with Solid Epoxy thinner EP-H . Pour the mixture onto the floor, apply with a rubber trowel and level with a roller.
If necessary, repeat priming to get a non-porous surface. A porous priming coat will result in holes and air bubbles in the finished coating.

Coating
Overcoating should be done within 8–48 hrs after priming. If the primed surface is not overcoated within 48 hrs, it should be abraded. The paint should be thinned 5–20 %. Pour the mixture onto the floor and apply it with a trowel and level with a roller.
Note! Add the remaining mixture to the next batch of the product, do not scrape it out of the container onto the floor.

Cleaning of tools
Solid Epoxy thinner EP-H.

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.

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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: maleic anhydride, Oxirane, 2-(chloromethyl)-, polymer with α-hydro-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)], Oxirane, mono((C13-15- alkyloxy)methyl) derivates, bis-(4-(2,3-epoxypropoxy)phenyl)propane, Fatty acids, tall-oil, compds. with oleylamine. **Warning.** Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. Avoid breathing vapor. Wash hands thoroughly after handling. Avoid release to the environment. Wear protective gloves and eye or face protection. Collect spillage. Contains epoxy constituents. May produce an allergic reaction.

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EN 1504-2:2004

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TIK-A032-2019	
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
Capillary absorption and permeability to water	w < 0,1 kg/m² • h0,5
Abrasion resistance	< 3000 mg
Reaction to fire	Bfl-s1
Adhesion strength by pull off test	≥ 2,0 N/mm²
Release of dangerous substances	NPD
Permeability to water vapour	Class II, 5 m < sD < 50 m
Resistance to severe chemical attack	Class II