KEMAPOX V 7000

Transparent epoxy varnish, shiny

- More layers, more smoothness
- Increased UV stability
- For outdoor and indoor use
- Component of all KEMA FLOORSYSTEMs
- Temperature resistence of cured product, -30°C to +90°C

PRODUCT DESCRIPTION	**2-component transparent epoxy resin, meant for varnish-over and protection of epoxy floor. Due to its characteristics chemical and wear resistance of floor is improved.**
FIELD OF USE	It is intended for suitably prepared substrates in buildings which are exposed to mechanical and chemical loads, for example warehouses, laboratories, food industry, production plants, airports, etc. In accordance with numbers of layers it can display, when cured, both extremely smooth and a non-skid surface.
	For additional protection of epoxy floors.
PRODUCT PROPERTIES	• More layers, more smoothness • Increased UV stability • For outdoor and indoor use • Component of all KEMA FLOORSYSTEMs • Temperature resistence of cured product, -30°C to +90°C

PRODUCT DATA

BASIC INFORMATION	**Appearance**	Epoxy resin (viscose liquid) and hardener (dense transparent liquid)	
	Packing	8 kg in a bucket (5 + 3 kg; component A: bucket with 5 kg of resin and componet B: bucket with 3 kg of resin)	
	Storage and expiration date	12 months from date of production if stored properly in undamaged original sealed packaging in dry and cool conditions. Date of production is printed on packaging.	
TECHNICAL DATA	**Type of product**	Epoxy resin with modified amino hardener	
	Mix ratio (A:B)	A:B=2:1(w/w)	
	Open time	ca. 30 minutes at 23°C	
	Flexural strength	38 N/mm^2	
	Compressive strength	80 N/mm^2	
	Solids content	98,3 %	
	Volatility	1,7 %	
	Temperature above dew point	minimum 3°C	
	Density	1,05 g/ml (at 23°C)	DIN EN ISO 2811-2
	Viscosity	400-500 mPas (at 23°C)	DIN 53018-1
	Shore hardness D	90	DIN 53505-D
	Adhesion strength after 28 days	> 3,5 N/mm^2	TP OS

INSTRUCTIONS FOR USE

CONSUMPTION	0,12-0,2 kg/m^2 in one application
BASE	The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. The concrete substrate must be sound and of sufficient compressive strength (minimum 25 MPa) with a average pull off strength of 1.5 MPa (minimum measured value has to up to 1,0 MPa). Moisture content in substrate has to be up to maximum 3,5% (CM method, concrete mark MB at least 35)
BASE PREPARATION	Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment.

MIX RATIO	2:1(the ratio of components A: B (by weight))
MIX TIME	The resin typically is thicker and heavier than the hardener, so they don't always blend together too easily. Before blending, mix the components separately to reduce their viscosity and make them easier to blend. After mixing each component for 2 to 3 minutes, place correctly proportioned amounts of component B in component A. Mix for about 1,5 minutes, scrape the sides and bottom of the bucket, and then mix for another 1,5 min until homogenous mixture is reached. When mixing, move the paddle in a circular pattern with an up-and down motion. Before use place the mixture in third container and mix again. The third mixing container must be clean and free of dirt, oil, grease, or other contaminants. Additional mixing is not suppose to be very long-time, to prevent too much air bubbles in mixture. If smaller quantity of mixture is to prepare, use separate mixing container. Before blending, mix the component for 2-3 minutes separately and then place correctly proportioned amounts of each ingredient in a mixing container. The mixing container, must be clean and free of dirt, oil, grease, or other contaminants. For weighing of smaller amounts use digital weighing machine, with precision +/- 0,001 kg.
MIX TOOL	KEMAPOX must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.
INSTALLATION	1. Transparent epoxy varnish, shiny KEMAPOX V 7000 is installed: -monolayer -double layer -triple layer 2. Transparent epoxy varnish, shiny KEMAPOX V 7000, if installed in monolayer coat, serves as final layer, which is used for anti-slip coating. Consumption: ca. 250 g/m2 To reach smooth surfaces, KEMAPOX V 7000 can be installed in two layers, where is consumption of the second layer ca. 100-150 g/m2. To reach completely smooth surfaces we installed three layers of KEMAPOX V 7000, where consumption of the third layer is ca. 100 g/m2. Before the implementation of each layer is necessarily sandblasting and cleaning.
TOOL	For spreading the steel shovel, paint roller or trowel is to used.
CLEANING OF TOOL	Clean all tools and application equipment with KEMAPOX SOLVENT immediately after use. Hardened and/or cured material can only be removed mechanically.
COAGULATION	Product is suitable for (+20°C): Foot traffic after 12 h. Curing time at 10°C is ca. 60 minutes. Curing time at 23°C is ca. 30 minutes. Curing time at 30°C is ca. 15 minutes.

LIMITATIONS

BASE TEMPERATURE	+8°C min./+30°C max.
AIR TEMPERATURE	+8°C min./+30°C max.
MATERIAL TEMPERATURE	+8°C min./+30°C max.
WARNINGS	• Protect freshly installed material from freezing, rain and other weather conditions. The material should not be used at (surface, air, material) temperatures lower than +8°C. • Relative Air Humidity: 80% r.h. max. • Maximum moisture content in substrate can be 4% (on concrete with mark MB C30/37, CM method). • Store the product in dry place, protected form direct sun and freezing. • Freshly applied KEMAPOX resin should be protected from damp, condensation and water for at least 24 hours. • For external applications, apply on a falling temperature. If applied during rising temperatures “pin holing” may occur from rising air. • If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO2 and H2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower system. • Dew Point: Beware of condensation! The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish. • Epoxy resins come in two parts: resin and hardener. The two parts must be mixed in the precise ratio given in the manufacturer's instructions. Imprecise measuring and mixing prevents the epoxy resin from solidifying or curing.

Recommendation: Remains of the unhardened/unset material have to be removed in accordance with the legislation.

Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

Local restrictions: Due to specific local regulations the installed product can differ from country to country. For exact instructions for use a country specific technical sheet should be obtained.

SAFETY DATA

EYES AND FACE:
Chemical resistant goggles and face shield must be worn. Examples of eye protection include a chemical safety goggle, or chemical safety goggle
in combination with a full face shield when there is a greater risk of splash. Do not wear contact lenses.
SKIN:
Wear chemical resistant (impervious) gloves.
RESPIRATORY:
Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected
respirator.
PROTECTIVE CLOTHING:
If repeated or prolonged skin contact or contamination is likely, protective clothing should be worn.
More data on storage, handling and use of mixture can be found in the safety sheet which contains safety, toxicological and ecological data. Warnings on the original packaging should also be considered.

LEGAL BASE

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA
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