

TECHNICAL DATA SHEET

KEMAPUR C 6000

Thin-layer polyurethane coat



PRODUCT DESCRIPTION

2-component thin-layer polyurethane coating, RAL coloured, suitable for concrete floor protection. Fully cured it displays a slightly shiny surface, which is UV resistant and is easily cleaned.

Field of use

Usually it is applied in one coat while in the case of extreme porosity of substrate two coats are recommended. Suitable for light mechanical loads, while total thickness does not exceed 300 µm. Substrate moisture content shall not be more than 3,5%, measured by the CM method. In case of higher moisture the product should not be installed.

Use in KEMA Floorsystems

System for final layer in KEMA FLOORSYSTEM's as thin-layer polyurethane coat.

In case of high humidity it can be NOT applied, max content of moisture is 3,5 %, (CM method). For outdoor and indoor use.

Product properties

- Colours: all colours in accordance with RAL chart
- Sensitive for high air humidity
- It can be applied only in thin layer
- For outdoor and indoor use
- Pot life: approx. 60 min at +23°C
- Mixing ratio: A:B=3:1 (w / w)
- UV resistance
- When installing lighter shades there can be slight variations in tone of the color, because of colored B component. We recommend prior consultation with the manufacturer.

PRODUCT DATA

Basic information

Appearance	Two component polyurethane flooring system
Packing	20 kg in steel buckets (15 kg component A and 5 kg component B)
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	Pigmented polyurethane Pre-polymer. Solvent based
Density of mix (at 23°)	1,2 g/cm ³
Minimum temperature of processing	+15°C
Ready for foot traffic	6 h (at 23°C)
Pot life (at 23°C)	approx. 1 h
Final curing time	7 days

INSTRUCTIONS FOR USE

Consumption

approx. 0,2-0,3 kg/m² in single coat

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 be 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

Clean cracks and hairline cracks, of dust, residue or other contamination. Fill all cracks with suitable putty. The next day smoothen the putty surface with a sandpaper or a mechanical grinder. Repairs to the substrate, filling of blowholes/voids and surface levelling can be carried out (if necessary) using appropriate products from the KEMA program (for example KEMAPOX GRUND or KEMAPOX/KEMAPUR FILL products). The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots must be removed by e.g. grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

Mix ratio

A:B=3:1 (rate of components A and B);

Mix time

First mix the A component separately. Pour component B into part A and mix until homogeneous mixture is reached. Mixing time is 2-3 minutes. When mixing, move the paddle in a circular pattern with an up-and down motion. If smaller quantity of mixture is to prepare, use separate mixing container, which must be clean and free of dirt, oil, grease, or other contaminants. For weighing of smaller amounts use digital weighing machine, with precision +/- 0,1 kg. Consider mix ratio: 3 parts by weight of A component and 1 part by weight of B component. When third component, dry quartz sand has to be added, mix first A and B considering the proportion and direction for mixing. Then slowly add the aggregate and mix to a uniform consistency. Sand has to be added gradually in steps of 15%.

Mix tool

KEMAPUR must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

Installation

KEMAPUR C 6000 is used as final polyurethane coat onto sufficient prepared substrate. Over concrete can be applied in one or two layers. The second layer is needed if the substrate is very porous and is applied after the first coat has been completely absorbed (after approx. 6 hours at +23°C). Mixed polyurethane coat pour onto prepared substrate and spread equally on substrate with a roller or brush. If KEMAPUR C 6000 is applied with spray technology it can be diluted with maximum 10% polyurethane solvents.

Tool

For spreading the paint roller or brush is to used.

Cleaning of tool

Clean all tools and application equipment with polyurethane solvents immediately after use. Hardened and/or cured material can only be removed mechanically.

Open time

approx. 1 hour

LIMITATIONS

Base temperature

+10°C min./ +30°C max.

Air temperature

+10°C min./ +30°C max.

Material temperature

+10°C min.

Warnings

- Protect fresh install poliurethan resin from freezing, raining and other weather conditions. Use product in temperature more then +8°C.
- For the good quality of the coat the suitable and equable temperature and humidity are very important. In case of high humidity it can NOT be applied!
- Maximum moisture content in substrate can be 3,5% (on concrete with mark MB C30/37, CM method). If capillary moisture is present it can not be applied.
- Recommended application temperature above +15°C.
- Do not wash surface with water!

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

While dealing with polyurethane, please consider the safety precautions mentioned in the risk and safety phrases. Avoid pollution of the unprotected skin – wash off with warm water and soap, if necessary. Wear protective clothing and use barrier cream before starting your work, please!
See also safety data sheets.

OTHER INFORMATION

Colours:

Product is available in accordance with RAL chart.

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 makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.