



KEMAPOX C 6000

2K epoxy thin-layer and self-levelling coating

- ▶ Good chemical and mechanical resistance
- ▶ Water resistant
- ▶ For indoor use only
- ▶ Does not contain solvents
- ▶ Glossy surface appearance
- ▶ Easy cleaning and maintenance



PRODUCT DESCRIPTION **2-component, pigmented, thin-layer and self-levelling epoxy coat.**
 The product is available in the following colors: RAL 1001, 3009, 3013, 5010, 6001, 7030, 7032 *, 7035, 7037, 7040 *, 7047, 8004, 9005, 9010. Other colors according to RAL color scale on request.
 *-in stock.

FIELD OF USE It is used to produce a thin-layer coating on concrete and other cement-based substrates for light loads, such as warehouses, workshops, garages, parking garages, etc..

For facilities with a heavy load it is also possible to install an additional, third component, dry quartz sand EPOXY SAND, which significantly increases the mechanical properties.

- Implementation in one coating is used as an anti- dust protection for cement substrates
- Implementation of several layers by adding EPOXY SAND EC is used for a high mechanical resistance
- Implementation strewn with dry sand to produce non-slip surfaces

- PRODUCT PROPERTIES**
- Good chemical and mechanical resistance
 - Water resistant
 - For indoor use only
 - Does not contain solvents
 - Glossy surface appearance
 - Easy cleaning and maintenance

PRODUCT DATA

BASIC INFORMATION

Appearance Component A: pigmented liquid, component B: yellowish liquid

Packing 24 kg (20 kg of component A + 4 kg of component B)
6 kg (5 kg of component A + 1 kg of component B)

Storage and expiration date At an appropriate storage (dry, in the temperature range between +5 °C and +30 °C in original and undamaged packaging), 12 months from date of manufacture. Protect the product from freezing, direct sun and heat sources.

TECHNICAL DATA

Chemical composition Filled epoxy resin and modified cyclo-aliphatic hardener

Density of compound (22°C) approx.: 1,5 g/cm³

Viscosity of compound (25°C) approx.: 2200 mPa*s

Bond strength on primer > 1,5 N/mm²

Compressive strength after 7 days approx. 60 MPa

Flexural strength after 7 days approx. 55 MPa

Shore D after 7 d 90

Content of volatile organic compounds, total < 10 ml/m³

HEAT RESISTANCE

Exposure	Dry heat
permanent:	+50°C
short- term, up to 7 days:	+80°C
short- term, up to 12 hours:	+100°C

Exposure should not be simultaneous chemical and mechanical.

INSTRUCTIONS FOR USE

INSTALLATION 1. Smooth thin- layer epoxy coating approx. 500 μ m:

Primer:	1 layer KEMAPOX GRUND 2000
Final coat:	1 layer KEMAPOX C 6000

2. Structured thin- layer epoxy coating of approx. 500 μ m:

Primer:	1 layer KEMAPOX GRUND 2000
Final coat:	1 layer KEMAPOX C 6000 + KEMAPOX DENS SM

3. Non- slip thin- layer epoxy coating of approx. 700 μ m:

Primer:	1 layer KEMAPOX GRUND 2000
Final coat:	1 layer KEMAPOX C 6000 + EPOXY SAND ES 0,1 - 0,3

4. System with two coats and thickness of approx. 1 mm:

Primer:	1 layer KEMAPOX GRUND 2000
Intermediate layer:	1 layer KEMAPOX C 6000 + EPOXY SAND ES 0,1 - 0,3
Final coat:	1 layer KEMAPOX C 6000

5. System with three coats and thickness of approx. 1,5 mm:

Primer:	1 layer KEMAPOX GRUND 2000
Intermediate layer:	2 layers KEMAPOX C 6000 + EPOXY SAND ES 0,1 - 0,3
Final coat:	1 layer KEMAPOX C 6000

6. Self levelling epoxy floorings of thickness approx. 4 mm

Primer:	1 layer KEMAPOX GRUND 2000
Intermediate layer:	1 layer KEMAPOX SL 5000 + EPOXY SAND ES 0,1 - 0,3 + EPOXY SAND ES 80
Final coat:	1 layer KEMAPOX C 6000

The systems described are feasible at normal absorbent and flat cement substrates. If a prior epoxy leveling is necessary, implement it with KEMAPOX Grund 2000 (see technical data sheet for KEMAPOX Grund 2000).

- CONSUMPTION** Primer prior to installation of epoxy floorings, substrate reinforcement, anti- dust coating, bonding layer with KEMAPOX Grund 2000: 0.3 - 0.5 kg/m² for one layer, depending on the absorbency of the substrate
1. Epoxy levelling compound (leveling up to 2 mm) with KEMAPOX Grund 2000: 1.4 to 1.6 kg/m² for 1 mm thickness (mixing ratio resin: sand = 1:1)
 2. Thin- layer smooth or structured epoxy coating of approx. 500 μm: 0.4 to 0.5 kg/m²
 3. Thin- layer non-slip epoxy coating of approx. 700 μm: 0.4 to 0.5 kg/m² + approx. 0.5 kg EPOX SAND 0.1 - 0.3 ES / m²
 4. System with two coats and a thickness of approx. 1 mm: approx. 1.0 kg/m² (0.4 kg of resin A + B and 0.15 kg of sand EPOXY SAND ES 0.1 - 0.3 - intermediate layer and 0.4 to 0.5 kg for the final coat)
 5. System with three layers and a thickness of approx. 1.5 mm: approx. 1.5 kg/m² (0.8 kg of resin A + B and 0.3 kg of sand EPOXY SAND 0.1 - 0.3 ES - two intermediate layers and 0.4 to 0.5 kg for the final coat)
 6. Self levelling epoxy floorings with thickness of approx. 4 mm: approx. 4 kg compound/m² (2.7 kg of resin A + B and 1.3 kg of sand EPOXY SAND ES 0.1 - 0.3) + 2 kg/m² EPOXY SAND ES 80 for complete strewing + 0.6 kg/m² KEMAPOX C 6000

These data are theoretical and do not include additional material consumption, which may result from the porous surfaces, slope levelling or losses at installation etc..

BASE The substrate must be clean, dry, stable, sound and without cement crust, dust, oil, grease, loose particles and similar impurities. Compressive strength of the substrate must be at least 25 MPa, the average bond strength of at least 1.5 MPa (the smallest measured value shall not be less than 1.0 MPa). Substrate moisture content shall not be more than 3,5%, measured by the CM method (concrete MB at least 35).

PREPARATION Porosity, irregularities and cracks in the substrate are treated with the priming of the substrate or leveling, use appropriate products KEMAPOX GRUND and KEMAPOX FILL. Peaks in the substrate must be properly processed. Before applying the product it is necessary to remove all dust and loose particles, preferably with a broom or vacuum cleaner.

MIX RATIO 5:1 ratio of components A: B (by weight) Quartz filler EPOXY SAND ES 0.1 - 0.3 mm (cca.30%) can be added.

MIX TIME The epoxy resin is usually denser than the hardener, so that they can not easily be stirred. Before mixing component A with component B, mix the two components individually. The recommended time for mixing the individual components is 2-3 minutes, then all of part B is mixed into all of part A. With an intensive mixer stir the mixture into a homogenous compound. It is important that the compound is stirred intensely to evenly distribute the hardener in the compound. It is necessary to mix on the sides and from the bottom upwards, so that the hardener is evenly distributed in the vertical direction, until the compound becomes completely homogeneous and of uniform color. Mixing time should be at least 3 minutes. Recommended temperature for mixing must be higher than 15 ° C. Before use pour over the mixed components in a new, clean container stirr all together again .The second mixing should not take too long to avoid the entry of too much air in the compound. The container must be clean and free of grease, oil or other impurities.

If you are preparing a small quantity of epoxy coating, use a third clean container. First mix the two components individually, then pour in in a third container the exact quantity of component A and component B . Mixing procedure should be the same as described above. Use weighing scales with an accuracy of + / - 0.01 kg.

If you add a third component of dry quartz sand, first mix the two components according to the instructions. Then gradually add the sand in steps of 15%. The total quantity of added sand depends on the purpose of installation and must be determined in each case.

If you are preparing a compound for structured coating, first mix the two components according to the instructions. Then gradually add KEMAPOX DENS SM and mix thoroughly.

MIX TOOL Component B must be added to component A and mixed thoroughly, preferably with a spiral mixing stirrer attached to a drill with max. 300-400 rpm .

INSTALLATION Before application, check the moisture, relative humidity and dew point. If all conditions are met the installation can begin.

In the case of humidity to 10% KEMAPOX GRUND 2040 can be used instead of KEMAPOX GRUND 2000.

1. Primer prior to installation of epoxy floorINGS, substrate reinforcement, anti- dust coating, bonding layer:
Pour mixed material (follow instructions) over the surface, distribute evenly by spatula from hard gum, roller or trowel. After about 5 minutes evenly distribute it in cross pulls, using a paint roller. In the case of highly absorbent substrates, apply the second coat after approx. 10-12 hours (depending on temperature).

2. Epoxy levelling compound (leveling up to 2 mm):
Prepare your material according to instructions and pour it over the surface. Using a spatula of hard gum or masonry trowel distribute the resin to the desired thickness. According to project the fresh resin can be strewn with dry sand.

3. Smooth or structured thin- layer epoxy coating:
Prepare your material according to instructions and pour it over the surface. Distribute the compound evenly with a paint roller in cross pulls.

4. System with two or three layers:
Pour the mixed material (follow instructions) over the surface, distribute evenly by spatula from hard gum, roller or trowel. After about 5 minutes distribute it evenly, using a paint roller in cross pulls. The second coat shall be applied after approx. 10-12 hours (depending on temperature). Distribute the final layer evenly using a paint roller in cross pulls.

5. Self- levelling epoxy floorings of 4 mm thickness:
Prepare your material according to instructions and pour it over the surface. Distribute the resin to the desired thickness using a notched trowel. Additionally air the surface with a ježastega roller in two directions, so that we remove as much air and ensure an even thickness. Still fresh pressure sprinkled with dry sand, make sure that the sand sprinkled in surplus. The final coat is applied KEMAPOX C 6000 in 24 hours. Before applying sand to fully remove and clean the surface thoroughly. KEMAPOX C 6000 on pour surface, it spread through the rubber float and treated with a brush or roller in two directions (cross).

TOOL KEMAPOX C 6000 is applied to the prepared substrate with a paint roller, a metal trowel, notched trowel or BIFLEKS spatula.

CLEANING OF TOOL Clean all tools with diluter KEMAPOX CLEANER immediately after use. Hardened and/or cured material can only be removed mechanically.

OPEN TIME 45 minutes (at +22°C, 100 g)

COAGULATION Processing time:

Temperature	Ready for foot traffic	Light load	Full load
+10°C	approx. 24 hours	approx. 5 days	approx. 10 days
+20°C	approx. 12 hours	approx. 3 days	approx. 7 days
+30°C	approx. 6 hours	approx. 2 days	approx. 5 days

Waiting time between coats:

Substrate temperature	Minimum	Maximum
+10°C	24 - 36 hours	3 - 4 days
+20°C	12 - 24 hours	2 - 3 days
+30°C	8 - 12 hours	1 - 2 days

Times are approximate and depend on the ambient conditions, particularly temperature and relative humidity.

LIMITATIONS

BASE TEMPERATURE +15°C min./ +30°C max.

AIR TEMPERATURE +15°C min./ +30°C max.

MATERIAL TEMPERATURE +15°C min.

- WARNINGS**
- Protect fresh install epoxy resin from freezing, raining and other weather conditions. Use product in temperature more then +8°C.
 - Relative Air Humidity: 80% r.h. max.
 - Maximum moisture content in substrate can be 3,5% on concrete with mark MB C30/37 (determined by CM method or laboratory drying)
 - Store the product in a 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 when temperature is falling. If applied during rising temperatures, small holes may occur on the surface.
 - If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these release large quantities of CO₂ and H₂O, which may adversely affect the appearance of the surface. For heating use only electric powered heatingsystems.
 - Dew Point: The substrate and uncured floor must be at least 3°C below the dew point to reduce the risk of condensation or blooming of the finished surface.
 - Epoxy resins is composed of two compounds. Consider given mixing ratio.
 - Uninterrupted access to closed site, 3 phase current, strength of at least 32 A, lighting of surfaces, where will be made floorings, protection against rain and direct sunlight.

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 on which we have no influence.

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

PROOFS

NORMS/ STANDARDS According to EN 13813



SAFETY DATA

At work use gloves and protective skin cream. Hardener should not come into contact with skin and especially not in the eyes. Stains on the skin shall be washed with soap and water, but if accidentally splashed into the eyes, you should wash with plenty of water and seek medical advice.

Further information on storage, handling and use of mixture contained in this safety data sheet which contains safety, toxicological and ecological data, also pay attention to warnings on the original packaging.

LEGAL BASE

Information and recommendations relating to the application and end use of Kema products, are given in good faith based on our temporary knowledge and experience of the products when properly stored, properly handled and used under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that from this information or any written recommendations, or from any other advice no tradability or suitability for a particular purpose can be guaranteed, nor can we take any liability arising from any legal relationship. Proprietary rights of third must be respected. All of orders fall under current sales and supply conditions. Users should always check for the latest technical data sheet for a product, copies are available on request.