



KEMAPOX TERRAZZO

Epoxy colored binder for making coatings in

- ▶ Thin layer application from 3-5 mm
- ▶ Water resistant
- ▶ For indoor and outdoor use
- ▶ Walkability after 24 h
- ▶ Possibility of using decorative fillers - granite, glass, etc ...
- ▶ Glossy monolithic final surface
- ▶ Good chemical and mechanical resistance



2-component, pigmented epoxy resin for making "terrazzo" final coating

PRODUCT DESCRIPTION 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 for making terraco coatings on concrete and other cement-based substrates for medium to high loads, such as warehouses, working halls, garages, stores, restaurants, hotels, etc..

Final decorative monolithic coating

- PRODUCT PROPERTIES**
- Thin layer application from 3-5 mm
 - Water resistant
 - For indoor and outdoor use
 - Walkability after 24 h
 - Possibility of using decorative fillers - granite, glass, etc ...
 - Glossy monolithic final surface
 - Good chemical and mechanical resistance

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)

Storage and expiration date 12 months from date of production at appropriate storage (dry, in the temperature range between +5 °C and + 30 °C in original and undamaged packaging), 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 (25°C) 1,4 g/cm³

Viscosity of compound (25°C) approx. 1500 mPa.s

Bond strength on primer > 1,5 N/mm²

Shore Dafter 7 days (23°C) 75

Open time (100 g, 23°C) approx.: 45 min.

Ready for full load After approx.: 5 days

Walkability After 24 h

THERMAL RESISTANCE

Exposure	Dry heat
Permament:	+50°C
Short term, up to 7 days:	+80°C
Short term, up to 12 hours:	+100°C

Exposure should not be chemical and mechanical at the same time.

INSTRUCTIONS FOR USE

INSTALLATION 1. Decorative epoxy terrazzo flooring of thickness approx. 3-5 mm:

Primer:	1 layer KEMAPOX GRUND 2000 - EPOXY SAND ES 80
Final coat	1 layer KEMAPOX TERRAZZO in combination with desired filler

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

CONSUMPTION 1. Decorative epoxy terrazzo flooring of thickness approx. 3-5 mm:

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. When the coating is still fresh, a total grit should be made with EPOXY SAND ES 80 (2-3 kg/m²)

Decorative terrazzo flooring in thickness 3-5 mm KEMAPOX TERRAZZO: consumption approx.: 6 kg/m²

These data are theoretical and do not include additional material consumption, which may result from a porous surface, 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).

BASE PREPARATION Porosity, irregularities and cracks in the substrate are repaired with with the priming of the substrate or leveling, use appropriate products KEMAPOX GRUND and KEMAPOX FILL. Peaks in the substrate are properly repaired.. Before applying the product it is necessary to remove all dust and loose particles, preferably with a broom or vacuum cleaner. When using different EPOXY TERRAZZO blends, it is advisable to separate the surfaces using aluminum, brass or other materials. Profiles also serve as dilatations, due to stretching and geometry of the structure. The profiles are installed with KEMAPOX GRUND 2000 epoxy resin, which we add 5% of KEMAPOX DENS SM.

MIX RATIO 5:1 ratio of component A: B (by weight)

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 a mixer intensively stir the compound into a homogenous mass. It is important that the compound is intensely stirred to evenly distribute the hardener in the mass. It is necessary to mix on the sides and from the bottom upwards, so that the hardener evenly distributed in 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 the mixed components into a new, clean container and mix 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 a third bowl the exact quantity of component A and component B. The mixing procedure should be the same as described above. Use weighing scales with an accuracy of + / - 0.01 kg.

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

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 flooring, 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 distribute evenly in cross pulls, using paint roller. When the coating is still fresh we make a total grit with EPOXY SAND ES 80. In the case of highly absorbent substrates apply the second coat after approx. 10-12 hours (depending on temperature) - in this case we apply the EPOXY SAND ES 80 on the second layer.

2. Decorative epoxy terrazzo flooring of thickness approx. 3-5 mm:

Prepare the material according to the instructions and pour it over the surface. Using a blade of hard rubber, trowel or masonry spoon, distribute the resin to the desired thickness. With the KEMAPOX TERRAZZO embedded, the desired color aggregate is deposited to full saturation. After 24 hours, the surface is roughly grinded, and gradually fine-finished - polished - in steps, for which it takes approx. 5-7 steps. The floors can be polished without impregnation, or polyurethane or epoxy additional protection may be carried as additional protective layer.

3. Finish protective coating:

Wait as long as recommended in the technical data sheet of the final coating, then mix the material according to the instructions. The finishing layer is applied either with a trowel or roller, depending on the desired layout. In the end, we recommend a uniform distribution of the resin already with the appropriate roller. Polyurethane or epoxy varnishes may be used.

OPTION:

The fresh self-levelling resin can be strewn with decorative flakes KEMAPOX CHIPS, which are available in different colors. The flakes must be protected with an epoxy or polyurethane varnish in gloss or satin finish.

TOOL KEMAPOX TERRAZZO is applied to the prepared substrate with a paint roller, a metal trowel, notched trowel or BIFLEKS spatula. KEMAPOX TERRAZZO has to be radiated with a spiked roller.

CLEANING OF TOOL Clean all tools with diluent KEMAPOX CLEANER immediately after use. Hardened material can only be removed mechanically.

OPEN TIME 45 minutes (at +23°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 +10°C min./ +30°C max.

AIR TEMPERATURE +10°C min./ +30°C max.

MATERIAL TEMPERATURE +15°C min.

- WARNINGS**
- Protect fresh install epoxy resin from freezing, raining and other weather conditions. The material should not be used at temperatures below +8° C.
 - Recommended Relative Air Humidity: 80% r.h. max.
 - Maximum moisture content in substrate is 3,5% on concrete with mark MB C30/37 (determined with CM method or laboratory drying)
 - Store the product in dry place, protect 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 in the room of application 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 heating systems.
 - Dew Point: The substrate and uncured floor must be at least 3°C below the dew point to avoid condensation or blooming of the floor finish.
 - Direct sunlight may cause discolouration and color deviations, but this has no effect on the function and properties of the coating.
 - Uninterrupted access to closed site, 3 phase current electrical connection, strength of at least 32 A, lighting of surfaces, where flooring will be implemented, 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 were 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, deman a country specific technical data sheet.

PROOFS

NORMS/ STANDARDS Product in accordance with EN 13813.

SAFETY DATA

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

Further information on storage, handling and use of compound are 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 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, nor any liability arising from any legal relationship can be guaranteed. Proprietary rights of third must be respected. All of our orders fall under current sales and supply conditions. Users should always refer to the latest technical data sheet for a product, copies are available on request.