# Microresina® Zero

**New generation, coloured base coat Microresina® (micro resin) for the redesign of existing flooring, ideal for use in GreenBuilding.**

Microresina® coloured base coat for the redesign of existing flooring for domestic and commercial use with medium foot traffic. Defines the coloured base in redesigning of interiors, providing perfectly adhering coverings for existing floorings in single and double-fired ceramics, porcelain tiles, glass mosaic, cotto, natural stone and marble and floorings in cement. Defines the continuous, coloured base layer ideal to receive the Microresina® protective coloured layer. For internal flooring applications.

CE EN 13813 · $CO_2$ Carbon Footprint · CLASS CHARACTERISTICS SR B2,0 EN 13813 STANDARD · CONTRIBUTES TO LEED POINTS

## GREENBUILDING RATING®

rating2

Regional Mineral ≥ 30 % · Low Emission IAQ Indoor Air Quality · SLV REDUCED Solvent ≤ 5 g/kg · Low Ecological Impact · Health, Care

Solvent-free

Non-toxic and non-hazardous

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

## PRODUCT STRENGTHS

- It can be easily applied with a roller
- High level, even coverage
- Enhances the textures of the materials it covers

## AREAS OF USE

**Use**
High-performance, coloured, water-based Microresina® base layer (colour WR01–WR10) for existing flooring.

Substrates:
- existing wall and floor coverings in single and double-fired ceramics, porcelain tiles, glass mosaic, cotto, natural stone treated with Keragrip Eco Pulep
- cement floors

For internal use, in domestic and commercial environments with medium foot traffic. Suitable for heated substrates and showers.

**Do not use**
In external applications; on inadequately prepared heated substrates; on substrates subject to moisture rising or with a residual humidity value exceeding 2% CM; on hardwood floors, PVC, laminates and linoleum; on substrates with residual wax or impurities in the joints.

## INSTRUCTIONS FOR USE

**Preparation of substrates**
In general, substrates must be free of dust, oil and grease, dry and free from moisture rising, with loose debris or flaky parts such as residues of cement, lime and paint coatings, which must be completely removed. Check that the substrates are stable and perfectly well anchored to the support before applying Microresina® Zero. Substrates must be perfectly dry. Any residual rising damp or water can cause vapour pressure to accumulate, which can in turn loosen the microfilm due to the complete non-absorbency of the microfilm in Microresina®.
**Existing wall and floor coverings in single and double-fired ceramics, porcelain tiles, glass mosaic, cotto, natural stone**: check the uniformity of the grouts; in case of loose or discontinuous grouts, remove the damaged or flaky parts of the old grouts; clean the surfaces of the old grouts with a metal brush or remove the outer layer with a Fuga-Remove scraper.
Vacuum the cleaning residues and proceed with re-grouting using a cement-based grout from the Fugabella® range (it is advisable to choose the same finish as the existing joints) or an organic grout from the Fugalite® range (fine finish).
Before grouting again with a grout from the Fugabella® range, make sure that the minimum thickness of product to be applied is not less than 3 to 4 mm and moisten the joints to be repaired with a squeezed sponge before applying the Fugabella® grout.
Make sure that the minimum thickness of product to be applied is not less than 2 mm before grouting again with a grout from the Fugalite® range.
Substrates must be prepared by cleaning with products suitable for the type of dirt present. If alkaline treatments are used, rinse well with water to remove any washing residue completely. Check that there is no accumulation of pollutants in the joints. After washing, check that the humidity in the joints reaches suitable residual humidity levels (< 2% CM) before applying the Microresina® cycle. After checking that no layers of wax or oily pollutants are present, prepare the surface by passing a cloth dipped in Keragrip Eco Pulep adhesion promoter over the whole surface, damping the ceramic floor. Do not pour the adhesion promoter directly onto the floor, to avoid damping the joints too much before treatment.



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## INSTRUCTIONS FOR USE

**Cement floors**: substrates must be compact, solid, level and smooth. They must also be dimensionally stable, non-deformable and must have already completed the curing period for hygrometric shrinkage.
The substrates must be permanently dry and free from moisture rising. Cement-based substrates must have a residual moisture at a maximum of 2% or 1.7% in case of under floor heating. The substrates must have a surface tear strength > 1.5 MPa according to ASTM D 4541 and a compressive strength > 20 N/mm$^2$.
After suitable preparation and careful cleaning, the substrates with dusty surfaces, weak or flaky parts, must be treated with EP21 diluted up to 30% with Keragrip Eco Pulep, applied with a roller with a coverage of ≈ 0.1 – 0.2 ℓ/m$^2$ depending on the grade of absorption of the substrate. Wait at least 6 hours for the complete evaporation of the solvent then, if necessary, proceed with a second coat applying EP21 diluted with up to 10% Keragrip Eco Pulep and spread with a roller with a coverage of ≈0.2 ℓ/m$^2$. Spread the primer evenly over the surface avoiding creating any build-up; let the EP21 be absorbed by the substrate before applying the Microresina® Zero product.
Before applying the product Microresina® Zero sand the surface, after priming, with Durasoft Pad abrasive in order to remove surface imperfections, roughen the entire surface and guarantee suitable grip.
Should there be any accidental accumulation or incomplete absorption of the EP21 primer it is necessary, using suitable tools, to eliminate the excess product using 120 grain abrasive mesh, roughing the surface to guarantee sufficient grip; finally, vacuum up the waste carefully before proceeding with subsequent applications.

**Preparation**
Mix part A before use. Add the hardening compound whilst stirring in the ratio Part A : Part B = 5 : 1 (in weight) and mix well until completely blended. Dilute the product up to 10% by weight with clean water and stir again. After mixing the product, leave to sit for a few minutes before proceeding with the application.

**Application**
Microresina® Zero must be applied carefully to the whole surface using a short-bristle roller, such as Roller Plus, respecting a coverage of approx. 0.2 kg/m² (particularly irregular substrates or large joints may require a coverage of up to ≈ 0.3 kg/m², also using 8 – 10 mm long-haired rollers). Conditions required for decorating are ambient temperatures between +10 and +30 °C and relative ambient humidity lower than 75%. Shape the corners with a brush, then pass over with the small roller as you proceed, so that the product can always be laid wet-on-wet. Do not pour the product directly onto the flooring, but dip the roller in the tray and distribute evenly on the flooring. Lay the product in areas that are not too large, applying the coats in a criss-cross manner and even out the product, which must be applied continuously.
In the joint areas, do not re-apply with the roller over areas that have already been coated previously, but blend together by lifting up the roller slightly at each overlap, so that no accumulations or excess amounts of material are applied by mistake.
When laying in several connected rooms, avoid any overlap, creating gaps and separations at the doors or thresholds connecting the rooms, using adhesive paper tape if necessary by using the joints as breaks.
If a good floor coverage has not been reached after applying the product, proceed with a second coat. Leave between 6 hours (+30 °C) and 16 hours (+10 °C) before applying on Microresina® New. If necessary, apply a further coat. Do not apply when the substrate is directly exposed to sunlight. After application, the surfaces must be protected against dust, water and humidity until the film has dried completely.

**Cleaning**
Residual traces of Microresina® Zero can be removed from tools using water before the product hardens.

## SPECIAL NOTES

Before proceeding with the next step, check the product has been applied evenly. Sand the surface with Carboplus Sic 220 grain abrasive mesh until any residue, overlaps and visible joins formed while laying the material have been removed; clean thoroughly to suck up sanding residue.
Before use acclimatize the product to reach room temperature.
Protect all treated surfaces from rain and strong humidity during the first 48 hours following application. Especially thick applications of product in a single coat will result in longer full-depth drying times.
Always use clean containers and tools. Use within 90 minutes from mixing.
The photographic images in the Kerakoll Design House catalogue and on the www.kerakolldesignhouse.com site as well as the colour chart samples provided are for general indication only.
The Kerakoll Design House surfaces in different materials have different tone, saturation, and lightness. Use material from a single production batch for each project.
Materials coming from different batches may have variations in tonality and colour.
The surface Texture of Kerakoll Design House is characterised by marbling, discontinuous material vibrations, and natural irregularities resulting from handmade craftsmanship that is carried out during implementation.

## ABSTRACT

*MICRORESINA® ZERO_BASE LAYER*
*New generation, coloured water-based Microresina® base coat for the re-design of existing floors, by roller application of Microresina® Zero, GreenBuilding Rating® 2, by Kerakoll Spa, applied using a roller with a coverage of ≈ 0.2 kg/m².*

## TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

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|---|---|
| Appearance: | |
| - part A | coloured liquid |
| - part B | yellowish paste |
| Pack | part A: 5 kg bucket / part B: 1 kg bucket |
| | part A: 1.5 kg bucket / part B: 0.3 kg bucket |
| Shelf life | ≈ 12 months in the original packaging |
| Warning | protect from frost, avoid direct exposure to sunlight and sources of heat |
| Mixing ratio | part A : part B = 5 : 1 |
| Working time of mixture | ≤ 90 min. |
| Dilution with water | 5 – 10% by volume |
| Humidity of the substrate | ≤ 2% |
| Temperature of the substrate | ≥ +10 °C |
| Temperature range for application | from +10 °C to +30 °C |
| Waiting time between subsequent coats | ≈ 6 hrs (+30 °C) / 16 hrs (+10 °C) |
| Touch-dry | ≈ 2 hrs |
| Coverage | ≈ 0.2 kg/m$^2$ |

*Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, i.e. temperature, ventilation and absorbency level of the substrate.*

## PERFORMANCE

**HIGH-TECH**

| | | |
|---|---|---|
| Conformity | SR-B2,0 | EN 13813 |

*Values taken at +20 °C, 65% R.H.and no ventilation. Data may vary depending on specific conditions at the building site.*

## WARNING

**- Product for professional use**
- abide by any standards and national regulations
- apply the product at substrate temperatures from +10°C
- apply on dry substrates
- do not add binders or additives
- protect from direct sunlight and currents of air for the first 6 hours
- do not apply on dirty or loose surfaces
- dispose of as indicated in applicable legislation
- the properties of products exposed to sharp changes in temperature (due to transport, storage, building site use, etc.) may be altered (e.g. crystallisation, partial hardening, fluidization, accelerated or delayed catalysis). In most cases, when products are restored to optimal conditions, the original properties will also be restored
- protect any surfaces and objects in the application area from accidental contact with the product
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service +39 0536 811 516 - globalservice@kerakoll.com





Kerakoll Quality System ISO 9001 CERTIFIED IT10/0327
Kerakoll Quality System ISO 14001 CERTIFIED IT242729/UK
Kerakoll Quality System BS 18001 CERTIFIED IT255412/UK

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