Microresina® New

New generation, two-component, water-based Microresina® for recolouring furnishing components, doors, wood, metal and PVC frames; ceramic floors and coverings, and hardwood floors. Specific to finish continuous Wallcrete and Wallpaper® coverings. Ideal for use in GreenBuilding.

Protective, coloured Microresina® for the covering of all surfaces (wood, aluminium, metal, PVC, MDF) is applicable on multiple elements and furnishing components (doors, windows, frames, shelves, lights, grilles, radiators and all sorts of objects). Ideal for the re-design of floors and coverings in ceramic, porcelain tiles, glass mosaic, cement-based marble floor tiles, natural stone.
Ideal to to colour continuous Legno+Color® floors and redesign existing wood floors.
Specific as a coloured finish for continuous Wallcrete and Wallpaper® coverings.

GREENBUILDING RATING®

rating 1

Water-based formulation

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- High level, even coverage
- Enhances the textures of the materials it covers
- Protects surfaces, leaving them non-absorbent, hygienic, and safe
- Quick drying
- Non yellowing
- Suitable for multiple materials
- Silk-touch effect
- Extra matt

AREAS OF USE

Use
High-performance, coloured, water-based Microresina® for:
- wooden doors and windows, either newly-seasoned or old to be repainted
- PVC and aluminium frames and plaques
- radiators and metal items duly treated with rust-preventive primer
- MDF, multilayer, or solid wood furniture
- floors and coverings treated with Microresina® Zero
- previous ceramic coatings, glass mosaic, natural stone
- fine-grain trowelled cementitious stable plaster
- gypsum-based plasters/renders and substrates
- Legno Large, Legno Medium, Legno Small oak floors
- floors made of oak, beech, maple, pine, afromosia, doussié, of traditional or pre-finished type or to be repaired

Specific for overlaying with Microresina® Xtreme and Microresina® Legno+Color® Finish.

For internal and external use (on windows and window frames), in domestic and commercial environments with foot traffic.
For floors, walls, furnishing accessories and vertical surfaces.
Suitable for heated substrates.

Do not use
On external floors and coverings, generally on wooden floors other than those expressly mentioned; on wooden floors that are subject to prolonged or constant contact with water. Directly on ceramic floors.
On cold ceramic surfaces (< +10 °C), on damp surfaces, such as the coatings of tanks, containers for liquids, and in the presence of rising damp. Do not use more than 1.5 hours after mixing.

INSTRUCTIONS FOR USE

Preparation of substrates
Before applying the Microresina® microfilm, check that the substrates are stable and perfectly well anchored. Substrates must be perfectly dry.

* ÉMISSION DANS L'AIR INTÉRIEUR Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

KERAKOLL
The GreenBuilding Company

INSTRUCTIONS FOR USE

Metal surfaces to be repainted: mechanically remove any old varnish with metal brushes and emery cloth until the metal is shiny. In case of large surface areas, industrial paint, or serious corrosion, resort to dry sanding. Carefully clean the surface and apply a suitable rust-preventive anti-corrosion product. Before application, check that the temperature of the metal surface is warmer than +10 °C. Apply the first coat pure to act as an adhesion-promoter. Check that the temperature of the substrate (> +10 °C) and the ambient temperature (> +15 °C) are sufficient, and wait 6 – 12 hours before applying the subsequent coats over top (diluted with clean water to 5 – 10% by weight, until desired coverage is achieved).

Unpainted wooden surfaces: sand and apply the first coat diluted with clean water to 30% over the entire surface. Sand the first coat of primer after it has fully dried until an even and smooth surface is achieved. Wait 6 – 12 hours for applying subsequent coats on top (diluted with clean water to 5 – 10% by weight, until the desired coverage is achieved).
Wood surfaces to repaint: sand the entire surface and clean thoroughly. Window and door jambs and frames can be rendered in advance with Wallpaper®. Invisibile and skirting board substrates, can be grouted in advance with Hyperflex® Hybrid or Wallpaper®.

Floors or coverings treated with Microresina® Zero: the Microresina® Zero supporting layer can be sanded after 6 hours (+30 °C) to 16 hours (+10 °C) from initial application. It must be prepared with care, making sure that any visible joins or build-up left during application of the Microresina® Zero: are removed: sand with a sander or mechanical buffer with Carboplus Sic 220 abrasive pad to even the surface; clean thoroughly with a vacuum, cleaner to remove all sanding waste.

Previous ceramic coatings, glass mosaic, natural stone: any dust and loose debris must be removed from joints by carefully cleaning them with vacuum cleaner. The surface of the covering to be decorated must be dry and free from dust or building dirt. Check the uniformity of the grouts; if these were inconsistent or discontinuous, remove the damaged or flaky parts of the old grouts; clean the surface with a metal brush or remove the top-most parts with scraper such as Fuga-Remove. Vacuum cleaning residues and grout again with a grout from the Fugabella® Color range (we recommend choosing the same finish as the existing joints) or an organic grout from the Fugalite® range (fine finish). Before grouting again with a grout, make sure that the minimum thickness of product to be applied is adequate (Fugabella® Color > 3-4 mm; Fugalite > 2 mm). 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 and before applying the product, 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 covering. Before application, check that the temperature of the ceramic surface is warmer than +10 °C. On non-absorbent surfaces apply the first coat to act as an adhesion-promoter and 6 to 12 hours later apply the subsequent coats (diluted to 5-10% by weight with clean water, until desired coverage is achieved). On stone coverings or absorbent surfaces, apply a first coat over the entire surface, diluted to 30% using clean water.

Fine-grain trowelled cementitious stable conventional plaster/render: cement-based plasters/renders must have a ≤ 2% residual moisture measured with a calcium carbide hygrometer. Check that the base has been applied in a single layer, without fine finishing coats, as these may be imperfectly anchored and therefore unsuitable. Sand the surface with a 180-grain sandpaper to achieve a smooth surface. Prime ahead the support with Keraplast Eco 337, diluted using water by a ratio of up to 1 : 4 with water. If the surface needs in-depth consolidation, apply a second coat of Keraplast Eco 337 after 4 to 6 hours, diluted with 1 : 2 with water. When the primed surface is completely dry, apply a first coat of Microresina® over the whole surface, diluted to 30% (by weight) with water. Wait 6 to 8 hours before applying subsequent coats (diluted with clean water to 5-10% by weight, until the desired coverage is achieved).

Gypsum-based plasters/renders and substrates: gypsum-based plasters/renders must have a ≤ 1% residual moisture measured with a calcium carbide hygrometer (follow the manufacturer's instructions). Check that the base has been applied in a single layer, without fine finishing coats, as these may be imperfectly anchored and therefore unsuitable. Using a roller or spreader, apply a coat of Primer A Eco diluted 1 : 4 with water. Wait at least 16 h and applying a second coat of Primer A Eco diluted 1 : 2 with water. Wait at least 16 hours and apply a first coat of Microresina® diluted with clean water to 5-10%. Wait 6 to 8 hours before applying subsequent coats (diluted with clean water to 5-10% by weight, until the desired coverage is achieved).

Legno Large, Legno Medium, Legno Small: clean the floor carefully to ensure the surface is free of dust, oil, wax, silicones, residual adhesive and stains of any type. Sand with SoftPad, carefully vacuum up all the dust created during sanding and then apply Microresina®.

Traditional, pre-polished or to be repaired floors made of oak, beech, maple, larch, doussie: sand the hardwood floor to obtain a smooth, clean surface that is free of dust, oil, wax, silicones, residual adhesive and stains of any type. If necessary, apply Aqua-Pur Flex to fill in any cracks and uneven areas. After approx. 2 hours, sand with Carbodur Sic 120 abrasive mesh disc and proceed with brushing if necessary, using specific equipment only. Sand with SoftPad, carefully vacuum up all the dust created during sanding and then apply Microresina®.

Wallcrete texturing agent: sand the surface with a 180-grain sandpaper to achieve a smooth surface. Apply a first coat of Microresina® over the surface, diluted to 30% (by weight) with clean water. Wait 6 to 8 hours before applying subsequent coats (diluted with clean water to 5-10% by weight, until the desired coverage is achieved).

Wallcrete texturing agent with Wallcrete Aquastop: sand the surface with a 180-grain sandpaper to achieve a smooth surface. Apply a first coat diluted to 10% (by weight) with clean water. Wait 6 to 8 hours before applying subsequent coats (diluted with clean water to 5-10% by weight, until the desired coverage is achieved).

Wallpaper® texturing agent: sand the surface with a 240-grain sandpaper to achieve a perfectly smooth surface. Apply a first coat of Microresina® Wall over the surface, diluted to 10% (by weight) using clean water. Wait 6 – 8 hours before applying subsequent coats on top. Before proceeding with subsequent coats, check the planarity of the surfaces, and if necessary replaster detected defects with the Wallpaper® texturing agent. Wait for the finishing coat to dry completely, and then sand again with a 240-grain sandpaper. Clean, and then proceed with application of subsequent coats (diluted with clean water to 5-10% by weight, until achieving the desired coverage).

INSTRUCTIONS FOR USE

Preparation
Mix part A before use and pour into a clean container of a suitable size. Add the hardening compound whilst stirring in the ratio part A : part B = 5 : 1 and mix well until completely blended.

Application
Application on coverings and furnishing accessories: for application on non-absorbent surfaces, prepare the first coat pure. For absorbent surfaces, dilute to 30% with clean water and mix again for application of the first coat to serve as primer or base coat. Wait 6 – 8 hours before applying subsequent coats on top.
For subsequent coats, dilute the product to 5 – 10% using clean water and repeat the application over completely dry product until coverage is achieved. After mixing the product, leave to sit for a few minutes before proceeding with the application.
Microresina® must be applied carefully over the entire surface with a short-bristle roller, such as Roller Plus, or a sponge roller, brush, or spray in two, three, or more coats until desired coverage is achieved (depending on the colour used).
Conditions required for decorating are ambient temperatures between +15 °C and +30 °C and relative humidity lower than 75%. Before application, check that the temperature of the covering is warmer than +10 °C.
On large surfaces, do not cross the roller strokes, keeping the front wet and avoiding passing over areas that have already been covered to avoid depositing the pigment in the film, preventing the colour from changing.
Shape the corner with the small roller or brush as you proceed, so that the product can always be laid wet-on-wet.
The interval before re-application between first and second coats is 6 – 12 hours, and 2 – 12 hours for subsequent coats. Use coverage of ≈ 0.1 kg/m² per coat. If more than 12 hours elapses between one coat and the next, sand lightly with a Durasoft System Softpad abrasive before applying the subsequent 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. In cases where different lots of coloured product are used, or when completing a job, it is advisable to mix the various quantities together (part A) so as to avoid slight differences in tone.

Application on wooden floors: dilute with clean water (≈ 10% for the first coat and ≈ 5% for the second coat) and stir again. After mixing the product, leave to sit for a few minutes before proceeding with the application.
Pour the mixed product into the tray provided and apply with a roller.
Evenly apply the first coat of Microresina® with Roller Plus so as to give a coverage of ≈ 110 g/m².
On surfaces of over ≈ 20 m² avoid large overlaps, but create distinct gaps along the vein, using adhesive paper tape if necessary. 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. After approx. 3 to 4 hours, sand with SoftPad, carefully vacuum up all the dust produced during sanding and evenly apply the second coat of Microresina® with Roller Plus so as to give a coverage of ≈ 100 g/m², carefully following the indications for application given above. After ≈ 2 – 3 hours, proceed to apply Microresina® Legno+Color® Finish, following the instructions provided in the technical sheet.

Application on ceramic floors: 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. Pour the mixed product into the tray provided and apply with a roller. The product must be laid on the flooring previously treated with Microresina® Zero and applied using a short-bristle roller, such as Roller Plus (4-6 mm), checking that a coverage of ≈ 80 g/m² is maintained.
Shape the corner with the small roller or brush 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. Leave between 2 hours (+30 °C) and 3 hours (+10 °C) between coats of Microresina® Xtreme. 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® can be removed from tools using water before the product hardens.

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SPECIAL NOTES

Before use acclimatize the product to reach room temperature.
On horizontal surfaces with prolonged contact with water (such as washbasin counter), be careful to proceed with 4 coats of product application (with product pure or diluted to a maximum of 5%), following yield of ≈ 0.4 kg/m².
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 1.5 hours from mixing. To give an even aesthetic effect, apply layers of uniform thickness and follow the recommended quantities.
once opened, the pack must be used as quickly as possible.
Before starting application, check that the roller has been thoroughly cleaned so that it does not shed "hairs" during the initial phase of application.
After the application, in environments with frequent contact with water, use the clear, transparent Hyperflex® Hybrid sealant to seal plaques, vents, shower cabinets and drains.
Avoid direct contact with highly aggressive substances, such as highly acid or basic substances and highly oxidizing substances (e.g. hair dye) which may alter the colour of the treated surface.
Cured plastic materials with a high content of plasticizers (e.g. tires and protective rubbers) may mark the floor if left in contact for a prolonged period of time on the flooring.
Pay attention to contact with tanned leather carpets and/or leather treated with dyes: prolonged direct contact with materials of this type can release oxidizing substances and dyes that can permanently alter the colour of the floor.
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.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance:	
- part A	coloured liquid (WR01 – WR10) – (PL1 – PL100)
- part B	transparent liquid
Volumetric mass A+B	≈ 1.11 kg/ℓ
Packs	
	part A 1.0 kg bucket + part B 0.2 kg bottle
	part A 2.5 kg bucket + part B 0.5 kg bottle
Shelf life	≈ 12 months in the original packaging in dry environment
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	≤ 1.5 hr
Temperature range for application	from +15 °C to +30 °C
Humidity of the substrate	≤ 2%
Temperature of the substrate	≥ +10 °C
Waiting time between 1st and 2nd coat	approx. 6 to 12 hrs (covering) / approx. 3 to 4 hrs (floor)
Waiting time between subsequent coats	approx. 2 to 12 hrs
Dilution with clean water:	
- on non-absorbent substrates	0-10% in volume (depending on the substrate)
- on absorbent substrates	0-30% in volume (depending on the substrate)
Touch-dry	≈ 1 hr
Coverage per coat	≈ 0.1 – 0.15 kg/m²

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
Conformità	conforme	EN 1504-2

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
- protect from direct sunlight and air currents for the first 3 hours
- do not use different product batches in the same room or in adjacent rooms
- 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

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