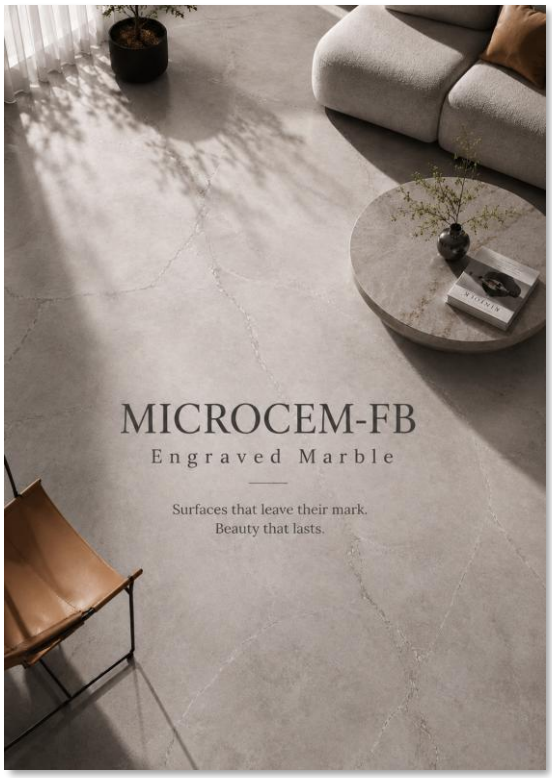
MICROCEM-FB

Issued on July 31, 2025 - Rev. No. 1 of July 31, 2025







HIGH ADHESION ON EXISTING SURFACES

WATER RESISTANCE WITH COMPLETE SYSTEM

HIGH MECHANICAL RESISTANCE

ANTI-SLIP CLASS R11

HIGH-QUALITY RAW MATERIALS

NIKKOLOR ITALIA

www.nikkolor.net

MICROCEM-FB

DESCRIPTION
Microcem-FB is a next-generation fiber-reinforced microcement, a premixed powder composed of quartz microspheres and marble powders, white Portland cement 525, selected glass fibers, and special additives that provide excellent adhesion to ceramic tiles, marble, screed, etc., with extraordinary resistance to flame spread and smoke development.

APPLICATIONS
✓ Ideal for covering floors, walls, and ceilings, both indoors and outdoors
✓ public and private spaces
✓ shopping centers, shops, bars, villas, residences
✓ swimming pools, balconies, terraces, bathrooms, shower stalls, saunas
✓ kitchens, furniture, and furnishings

The unique feature of the total absence of joints allows for seamless solutions between the floor and the wall, meeting the furnishing needs of modern and contemporary architecture.

MAIN FEATURES
✓ Realistic and natural appearance of raw microcement
✓ Seamless, seamless surface
✓ Highly resistant and durable
✓ Can be used on interior and exterior walls, furniture, and decorative panels

PREPARATION, COLORING, AND MIXING
✓ The composition is 6 liters of drinking water to 20 kg of Microcem-FB.
1. Add the water to a clean bucket and pour in the chosen color toner, mixing well.
2. Add the Microcem-FB in small doses and mix thoroughly using a mechanical mixer until a smooth, lump-free paste is obtained.

PREPARATION AND APPLICATION
✓ Substrates must be dry and free from dust, paint, wax, oil, and loose particles.
1. Apply one coat of Primer NK using a long-pile roller and allow to dry for 24 hours (+20°C).
2. Apply two coats of Microcem-FB using a stainless steel trowel. Allow the first coat to dry for 12 hours before applying the second coat. After the second coat, allow to dry for 24 hours (+20°C).
3. Apply three coats of Decor Finish Uniko using a short-pile roller. Wait 24 hours between coats. After the third and final coat, allow to dry for 72 hours (+20°C).

NOTE – HIGH-PERFORMANCE PROTECTIVE SYSTEM
For particularly demanding service conditions, such as **swimming pools, tanks, surfaces subject to prolonged contact with water, chlorine or salt water, high-traffic areas, or particularly aggressive environments**, **PRP Glass Protekt** is recommended as an alternative to **Decor Finish Uniko**, applied according to the instructions provided in the relevant Technical Data Sheet.

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WARNINGS

- ✓ Product for professional use; comply with national standards and regulations.
- ✓ Apply when the substrate temperature is above +10°C.
- ✓ Apply to permanently dry substrates.
- ✓ Protect from direct sunlight and drafts for the first 6 hours.
- ✓ Do not apply to dirty or loose surfaces.
- ✓ Dispose of in accordance with applicable regulations.
- ✓ Materials exposed to temperature changes (due to transportation, storage, construction site, etc.) may cause substantial changes to the product (e.g., crystallization, partial hardening, fluidification, accelerated or delayed curing).
- ✓ In most cases, restoring the products to optimal conditions will also restore their original characteristics.
- ✓ Protect surfaces and objects in the application area from accidental contact.
- ✓ If necessary, request the safety data sheet or contact Nikkolor Italia Technical Customer Service at +39 333 861 8963.
- ✓ www.nikkolor.net

TECHNICAL DATA

- ✓ Appearance: Powder
- ✓ Color: White
- ✓ Colors obtainable with toner: 16 shades
- ✓ Dilution: ~300 ml of drinking water per kg of product
- ✓ Mixture pH: 12
- ✓ Coverage: 16 m^2 with two coats
- ✓ Pot Life: 4 hours at +20°C
- ✓ Grain Size: Max 0.5 mm
- ✓ Mineralogical nature of the aggregate: Silicon/carbonate
- ✓ Consistency: Thixotropic
- ✓ Density of the mix: 1,500 kg/m3
- ✓ Apparent density: 1.20 kg/L
- ✓ Apparent density of the mix: 1.50 kg/L
- ✓ Optimal application temperature: (*) +5°C to +30°C
- ✓ Operating temperature and thermal resistance: –30°C to +70°C
- ✓ Surface drying: 3 hours at +20°C
- ✓ Drying time for the second coat: 12 hours at +20°C
- ✓ Drying time for walking: 48 hours at +20°C
- ✓ Full hardening: ~7 days at +20°C
- ✓ Laying of tables, chairs, and furniture: ~10 days at +20°C
- ✓ Full curing time: 28 days at +20°C
- ✓ Water and UV resistance after application of PRP Glass Protekt: ~7 days
- ✓ Shelf life: 24 months from the date of production in the original, unopened packaging
- ✓ Packaging: 20 kg
- ✓ End use classification (UNI EN 1062.1 – 4.1): Decoration and protection
- ✓ Safety information: Please refer to the latest Safety Data Sheet (SDS) for hazard classification, precautions for use, and personal protective equipment (PPE).

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PERFORMANCE CHARACTERISTICS
- ✓ Determination of slip (UNI EN 1308): **0.02 mm**
- ✓ Initial tensile adhesion strength (UNI EN 1348): **1.71 N/mm^2**
- ✓ Tensile adhesion strength after heat ageing (UNI EN 1348): **1.42 N/mm^2**
- ✓ Tensile adhesion strength after water immersion (UNI EN 1348): **1.26 N/mm^2**

MICROCEM-FB PERFORMANCE
- ✓ Compressive strength (UNI EN 13892-2): **24.33 N/mm^2 at 28 days**
- ✓ Flexural strength (UNI EN 13892-2): **6.22 N/mm^2 at 28 days**

PERFORMANCE OF THE COMPLETE TESTED SYSTEM*
- ✓ Impact resistance (UNI EN ISO 6272-1): **5.42 Nm**
- ✓ Liquid water permeability (UNI EN 1062-3): **w = 0.0001 kg/(m^2·h$^{0.5}$)**
- **Tested system: PRIMER NK + MICROCEM-FB + DECOR FINISH.**

The values relating to compressive strength, flexural strength, impact resistance and liquid water permeability were determined through internal tests carried out at the Nikkolor Italia Research & Development Laboratory, in accordance with the test methods specified in the relevant UNI EN standards.

Data measured at a temperature of +20 °C, 65% R.H. and in the absence of ventilation. Values may vary depending on specific site conditions, including temperature, ventilation and substrate absorbency.

This information may be supplemented and/or modified over time by Nikkolor Italia s.r.l.; for any such updates, please consult the website www.nikkolor.net.

Nikkolor Italia S.r.l. therefore guarantees the validity, currency and updating of its information only when obtained directly from its official website.

This Technical Data Sheet has been prepared on the basis of our best technical and application knowledge.

However, since we cannot directly control site conditions or the execution of the works, the information provided herein is intended as general guidance and does not in any way bind our Company.

A preliminary test is therefore recommended to verify the suitability of the product for its intended use.

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RULES AND TIPS
Let's start by saying that the success of a floor depends largely on the substrate, the correct application method, and the mixing and installation phases. However, proper cleaning and proper maintenance of the floor is the responsibility of those who live with seamless surfaces. The more it is cared for, the longer the floor will last.

Advantages of Microcem-FB flooring
The floor is available in a wide variety of colors and textures, can be matte or satin, smooth or rough, and is highly resistant to wear, trampling, and impacts. Furthermore, it holds up well in humid environments, has good fireproof properties, thus preventing the spread of flames, is highly resistant to chemicals, the surface is hygienic because it has no joints, and, finally, is easy to clean and maintain.

Disadvantages of Microcem-FB flooring
The floor is very durable, but not as durable as a ceramic or stoneware floor. It can be repaired rather than replaced entirely if the damage affects a very small area, and this is also a good thing, but in any case, it must be applied by qualified professionals. It is not suitable for DIY.

Using the Microcem-FB Floor
In the first week after applying the complete cycle, it is very important not to clean the floor under any circumstances. Do not spill any liquid on the floor that could alter the color, lighten, or even bleach it. Therefore, avoid walking on the floor at all costs, as it has not yet reached its maximum hardness and chemical resistance.

Cleaning the Microcem-FB Floor
Start cleaning the floor by removing dust and dirt using a soft-bristled broom or a vacuum cleaner to gently sweep the surface. Be sure to cover the entire floor, including hard-to-reach areas such as corners. Mopping the floor without sweeping away dust and dirt can damage the surface layer over time, leaving it looking dirty even after thoroughly mopping.

Helpful tips for cleaning Microcem-FB flooring:
Prepare a solution of warm water and neutral soap, following the manufacturer's instructions. Using a microfiber cloth, thoroughly clean the entire surface. Be sure not to overuse the detergent, as excessive amounts could leave residue on the floor. Neutral products are the best choice for interiors and home environments; they are simple, economical, and extremely effective.

Helpful tips for treating Microcem-FB flooring
- ✓ Use a doormat outside the door
- ✓ Use non-absorbent mats under the sink and washbasin
- ✓ Use cotton or natural fiber mats; those made of rubber or synthetic fibers may release oily substances and stain the surface
- ✓ Place shock-absorbent felt pads under the legs of chairs, tables, desks, and furniture
- ✓ Use silicone rubber casters for office chairs

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- ✓ Clean up any liquids spilled on the floor immediately; if left to settle, they could damage the floor's surface protection.
- ✓ Be extremely careful not to spill anything on the surface, such as oils, perfumes, creams, greases, stucco, mortars, and paints, which could permanently damage the floor.
- ✓ Do not leave damp cloths on the floor.
- ✓ Do not use abrasive or aggressive products such as wire brushes, sandpaper, hydrochloric acid, acetone, or ammonia, as their corrosive properties will damage the floor.
- ✓ Be extremely careful when installing furniture (in any case, it is recommended to let the surface fully cure) and do not leave objects on the floor. Incorrectly curing the floor will result in unsightly stains, even after several days.
- ✓ Do not drag any objects across the floor.
- ✓ Walk on the surface only with clean shoes.
- ✓ Avoid standing water and direct contact with moisture.
- ✓ Knowledge of the surfaces and their suitability for the correct method of Installation and use of the products is the responsibility of the person performing the work.
- ✓ The customer is responsible for the proper treatment, maintenance, and cleaning of the surfaces.

However, since we cannot intervene directly, the company assumes no responsibility for the conditions of the construction sites, the execution of the work, or the proper treatment, maintenance, and post-installation cleaning of the floors, as these are beyond our control. For any information, please contact our technical support team.





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