ETNA

Issued on 03/04/2024 - Rev. No. 1 of 03/04/2024





ETNA

CONTINUOUS DECORATIVE COATING
WITH REAL VOLCANIC ASH

SEAMLESS SURFACES.
PURE ARCHITECTURAL DESIGN.

- REAL VOLCANIC ASH EFFECT
- HIGH DURABILITY AND RESISTANCE
- WATERPROOF AND BREATHABLE
- RESISTANT TO UV RAYS AND ATMOSPHERIC AGENTS

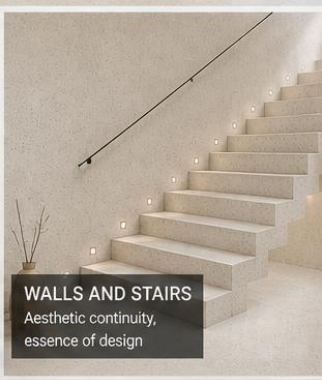












- HIGH ADHESION ON EXISTING SURFACES
- WATER RESISTANCE WITH FULL SYSTEM
- HIGH MECHANICAL STRENGTH
- ANTI-SLIP R11
- PREMIUM RAW MATERIALS

NIKKOLOR ITALIA
www.nikkolor.net

ETNA

DESCRIPTION
Etna® is the result of an innovative project born from the REUCET 2018/2020 research conducted by the University of Catania and funded by the Ministry of the Environment, aimed at recovering and using volcanic ash from Mount Etna's 1669 eruption.

This professional high-end decorative finish represents a true revolution for the industry: easy to apply, durable, breathable, with insulating properties and the ability to purify the air in the environments in which it is applied. Etna® is not just a decorative material, but a concrete opportunity to change habits in the supply chain and actively contribute to the transition to a more sustainable, circular economy.

FIELDS OF USE
✓ 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, all of which satisfies the furnishing needs of modern and contemporary architecture.

MAIN FEATURES
✓ Realistic and natural appearance of volcanic ash
✓ 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 litres of drinking water in 20 kg of Microcem-FB and 4 kg of Etna
1. Add water to a clean bucket, pour in the toner, and mix well.
2. Add Microcem-FB in small doses and mix thoroughly using a mechanical mixer. Immediately add Etna and mix thoroughly 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 Etna 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.

ETNA

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: Volcanic ash
- ✓ Color: Black;
- ✓ Available colors via toner: 16 shades
- ✓ pH of the mixture: 12
- ✓ Coverage (two coats): 16 m^2
- ✓ Apparent density: 1.20 kg/L
- ✓ Apparent density of the mixture: 1.45 kg/L
- ✓ Thermal resistance and operating temperature: –30°C to +50°C
- ✓ Application temperature: +10°C to +30°C
- ✓ Dry to the touch: 3 hours at +20°C
- ✓ Ready for foot traffic: 48 hours at +20°C
- ✓ Full hardening: ~7 days at +20°C
- ✓ Placement of furniture: ~10 days at +20°C
- ✓ Complete curing: 28 days at +20°C
- ✓ Storage: 24 months in unopened packaging, protected from UV rays and humidity, at temperatures between +5°C and +30°C
- ✓ Packaging: 4 kg Etna + 20 kg Microcem-FB
- ✓ Pot life (working time): (*) 4 hours
- ✓ Application temperature: (*) +5°C to +30°C
- ✓ Classification for end-use (UNI EN 1062.1 – 4.1): Decoration and Protection
- ✓ Safety information: Consult the updated Safety Data Sheet for hazard classification, precautions for use, and personal protective equipment (PPE).

ETNA

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**

ETNA PERFORMANCE
- ✓ Compressive strength (UNI EN 13892-2): **26.06 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): **6.18 Nm**
- ✓ Liquid water permeability (UNI EN 1062-3): **w = 0.0001 kg/(m^2·h$^{0.5}$)**
- **Tested system: PRIMER NK + MICROCEM-FB (Etna) + 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.

Consequently, Nikkolor Italia s.r.l. assumes responsibility for the validity, accuracy, and currency of its information only when such information is obtained directly from its website.

This technical data sheet has been prepared based on our best technical and application-related knowledge.

However, as we have no direct control over conditions at the job site or the execution of the work, these details are provided as general guidance and are not binding upon our company in any way.

We therefore recommend conducting a preliminary test to verify the suitability of the product for the intended use.

ETNA

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 Etna 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 Etna 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 Etna 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 Etna 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 like 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 Etna 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 too much could leave residue on the floor. Neutral products are the best choice for interiors and home environments; they're simple, economical, and extremely effective.

Helpful tips on how to treat Etna 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 oil 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

ETNA

- ✓ 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.
- ✓ Proper treatment, maintenance, and cleaning of surfaces is the customer's responsibility.

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.





Nikkolor Italia s.r.l.
V.le Vittorio Veneto, 186 - 96014 Floridia (SR)
+39 0931 941789 - www.nikkolor.net