

Professional, single component, ready-to-use, water-based, solvent-free waterproofing product suitable for waterproofing under positive thrust substrates in damp environments, kitchens, bathrooms, shower cabinets and saunas before laying ceramic and homogenous tiles, marble or natural stone.



IDROBUILD® FX

GUARANTEED WATERPROOFING – The IDROBUILD® FX technology guarantees the watertightness of any surface it is applied to as well as protecting lower floors or adjacent areas from water infiltration and damp. The elasticity, adhesiveness and chemical stability of IDROBUILD® FX confer total watertightness to absorbent or permeable construction materials even in permanently damp, steamy environments.

SUPERIOR PERFORMANCE – The cohesion of the hardened film of IDROBUILD® FX creates an unbroken membrane that completely covers cement-based screeds, plasters and concrete slabs, thereby ensuring an elastic waterproof layer with the specific rheological properties required to guarantee the high adhesion of surface coverings. It counteracts vapour pressure thereby protecting the waterproofing system.

NATURAL WATER-BASED – IDROBUILD® FX is totally free of volatile organic substances and does not give off fumes that may be harmful to humans or to the environment. It can be safely used with no contraindications in indoor environments. It colours substrates when applied, making it easy to check the correct application. It can be easily applied with a spreader or roller to any absorbent substrate.

Developed by the Research and Development Division and guaranteed by the Training Centre.
Compliant with the CARE Project for the Protection of Health and the Environment:
Substrates Division (Method M1 – Action F100).

AREAS OF USE

Waterproofing of smooth, compact and absorbent substrates before laying ceramic coverings with adhesives.

Compatible adhesives:

- cement-based and SAS technology, two-component reactive-epoxy and polyurethane adhesives dispersed in water

Use

For indoor use. Concrete flooring, compact and smooth cement-based screeds, prefabricated or fresh concrete castings, gypsum, plasterboard and gypsum brick walls, cement-based plasters and finishing products and cement-lime mortar.

Do not use

In outdoor applications, on wet surfaces or substrates subject to moisture rising; in environments where water is always present, baths, swimming pools and tanks.

PREPARATION OF SUBSTRATES

The substrate must be compact, smooth and absorbent, free from dust, oil and grease, free from any rising damp, with no loose or flaky parts. Varnishes and paints must be removed completely. The substrate must be stable, non-deformable and with no cracks. Plasters with a gypsum base must present a residual humidity $\leq 1\%$ and screeds with an anhydrite base $\leq 0.5\%$, both of which should be measured with a carbide hygrometer. Check for traces of thin finishings, that would interfere with the subsequent laying of heavy surface coverings such as ceramic tiles.

INSTRUCTIONS FOR USE

Preparation

IDROBUILD® FX is ready-to-use and does not need any preparation. In any case, before use it is advisable to remix the product inside the container to ensure the mixture is of an even consistency. Any excess product can be kept for later use by putting the lid back on the container.

Application

Apply a fine, uniform film, preferably using a short bristle, synthetic fibre roller, a steel spreader or a brush. When applied with a roller or brush, wait until the first coat has hardened before proceeding with the second (≈ 1 hour depending on substrate absorption and temperature) in order to ensure the waterproofing effect. The distinct light blue colour of IDROBUILD® FX allows the user to check immediately if the surface has been fully and evenly covered. Angles and hydraulic couplings must be joined using a professional IDROBUILD® GIUNTOFLEX 120 waterproofing strip and relative accessories applied directly with IDROBUILD® FX.

Cleaning

IDROBUILD® FX can be removed from tools and other surfaces by washing them with water before the product hardens or with solvents once hardened.

SPECIAL NOTES

On highly absorbent substrates, apply a base coat by diluting IDROBUILD® FX by 5% – 10% with water depending on substrate absorption. After this, apply the second undiluted coat using a steel spreader or roller to ensure the watertightness of the surface.

If required, the IDROBUILD® RINFORZO technological fabric reinforcement can be inserted and an extra layer of IDROBUILD® FX applied.

ABSTRACT

Waterproof damp environments, kitchens, bathrooms, shower cabinets and saunas before laying ceramic and homogenous tiles, marble or natural stone using a professional, single component, ready-to-use, water-based, solvent-free waterproofing product such as IDROBUILD® FX manufactured by Kerakoll Spa, to be applied using a roller or steel spreader with coverage of 1.5 kg/m².

TECHNICAL CHARACTERISTICS

Appearance	Light blue paste	
Specific weight	≈ 1.44 kg/dm ³	
Chemical nature	Co-polymers dispersed in water	
CARE	Method M1 – Action F100	
Storage	≈ 12 months in the original packaging	
Warning	Protect from frost	
	Avoid direct exposure to sunlight and sources of heat	
Packaging	Buckets 25 / 10 / 5 kg	

TECHNICAL DATA compliant with Kerakoll Quality Standard

Viscosity	≈ 1100000 mPa · s, rotor 93 RPM 0.5	Brookfield method
Temperature range for application	da +5 °C a +35 °C	
Dilution for base coat	≈ 5 – 10 %	
Waiting time between 1 st and 2 nd coat	≈ 1 h	
Minimum dry thickness	≈ 500 µm	
Waiting time before laying:		
- min	≥ 2 h	
- max	≤ 48 h	
Coverage per coat	≈ 1.5 kg/m ² per mm of thickness	

At a temperature of +23 °C, 50% R.H. and no ventilation.

FINAL CHARACTERISTICS

Waterproofing	≥ 3 bar	DIN 1048
Permeability to water vapour µ after 28 days	≥ 8000	UNI 8202/23°
Water absorption after 28 days	≤ 10%	UNI 8202/22°
Adhesion to concrete after 28 days	≥ 1 N/mm	EN 1348
Compressive strength after 28 days:		
- adhesives Class C1	≥ 0.5 N/mm	EN 1348
- adhesives Class C2	≥ 1 N/mm	EN 1348
Ultimate elongation after 7 days	≥ 90%	DIN 53 504
Crack bridging	≥ 1.5 mm	ASTM C 1305
Working temperature	from -40 °C to +90 °C	

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

WARNING

- **Product for professional use**
- do not apply IDROBUILD® FX as an external waterproofing covering
- use at temperatures between +5 °C and +35 °C
- IDROBUILD® FX is dispersed in water. Hence it should be stored and transported at temperatures of more than +5 °C.
- apply subsequent coats only when previous coat is fully dry
- if necessary, ask for the safety data sheet
- for further information please consult the **Kerakoll Worldwide Global Service +39-0536.811.516**



THE KERAKOLL GLOBAL SERVICE

Wherever you are, and whatever your project needs are, you can always rely on the Kerakoll Service: highly-efficient, global customer support matching the high quality of our products.

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Training Service - Professional training to support our quality

Guarantee Service - A long-lasting warranty

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KERAKOLL QUALITY STANDARD

In all units of the Kerakoll Group, before being considered suitable for production, products undergo stringent testing in accordance with the very high requirements set by the Kerakoll Quality Standard: a process supported by the Centre for Applied Technology which assists the work of researchers with its sophisticated resources and laboratories. At the Kerakoll laboratories the various elements of formulations are carefully analysed to identify and eliminate any factors of weakness by means of simulation of real working conditions in building sites. After the testing cycles, the new products are submitted to the extreme fatigue of the Safety-Test process.



SAFETY, HEALTH AND THE ENVIRONMENT

For an industrial system such as Kerakoll it is vitally important to ensure that human health and the environment are protected. The Kerakoll company policy is to ensure that every possible safeguard be taken to make sure that these factors are always considered, and regulations and specific methods have been developed over the years for this purpose at all levels of the organisation. The CARE Project is the result of the Group's concern for human health and the environment, and ensures that the Group's products are perfectly safe for use and that the building materials supplied to builders ensure a very high level of safety before, during and after their use.

The information given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building yards and the execution of the work, this information represents general indications that do not bind our Company in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.

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Code F553/2004-I



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