Natural breathable silicate plaster with Microtech Technology, suitable for the dehumidification and restoration of damp walls and the protective plastering of old or newly built walls. The perfect adhesion to traditional materials makes it possible to bring old masonry work and environments back to their original condition.

SANABUILD®

ACTIVE MICROPORE – Thanks to natural aerating micro-particles, Microtech Technology acts on the hygrometric state of SANABUILD® to generate a structure of communicating micro-mesopores that guarantees the formation of a Diffusive Dynamic Circuit of vapour at constant pressure for the rapid elimination of humidity. It prevents condensation from building up in interstitial pores and macro-pores thereby restoring the masonry structures and environments to their original condition.

PERMANENT BREATHABILITY – Micro-particles with anti-sulphate pozzolanic action and expanded silicate minerals with reduced specific weight and high compressibility complete SANABUILD® Microtech Technology, ensuring an open-pore surface with excellent, stable breathability that is critical to the hydrodynamic balance of a comfortable living environment.

IMPERMEABLE TO DRIVING RAIN – The technological supremacy of SANABUILD® is also ensured by the low absorption of meteoric water, thereby keeping the low thermal conductivity and the high protection of masonry structures unchanged. On-site tests confirm its suitability for use in all stages of both manual and machine application.

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: Building Division (Method M1 – Action E507).

KERAKOLL
SUPERIOR BUILDING TECHNOLOGY

SANABUILD®

AREAS OF USE

Restoration, dehumidification and protection of:

- damp or salt damp plastered walls in the presence of capillary moisture rising
- old walls with widespread salt damp or corrosion
- newly built external façades or masonry structures when transpiration of surfaces is to be assured and a protective, fine finish plaster applied
- joints on exposed masonry structures subject to water vapour migration

Use

For indoor and outdoor use on brick, stone, tuff or concrete structures.

Do not use

On walls in gypsum or gypsum-based, ready-for-use plasters, on substrates which are dirty, non-cohesive, powdery or on previous paint or finishing products.

PREPARATION OF SUBSTRATES

Remove plaster completely from walls or external façades to be restored. In the presence of capillary moisture rising, remove plaster up to at least 50 cm above the visible damp marks. Remove rendering mortars and stone blocks and bricks that are crumbling or flaky due to salt content.
Clean surfaces to be restored with a pressure washer, hydro-sander or sandblasting machine.
Use SANABUILD® to reconstruct missing parts, to fill empty joints, to rebuild walls using the fragment-filling or break-fill techniques and to connect systems. Once walls have been prepared in this manner,always apply a rough coat of SANABUILD® in order to even out substrate absorbencies thereby ensuring the best possible planarity of the subsequent plaster layer and to increase adhesion to low-absorbency substrates.
In the presence of capillary moisture rising, apply SANABUILD® FONDO water-base, anti-salinity impregnating primer to saturation point before applying the rough coat wet-on-wet using SANABUILD®.
Once the SANABUILD® FONDO has been absorbed by the masonry (the surface must be opacified) the light rendering coat must be done. If SANABUILD® FONDO is completely dried on the wall, the light rendering coat cannot guarantee the grip of the successive render. Consult the Kerakoll technical service.

ABSTRACT

Prepare masonry structures by removing old plaster, loose parts or previous covering materials. Reconstruct any missing parts from walls to ensure the surface is compact and flat. To sandblast and Moisten substrates with clean water and apply a layer at least 2 cm thick of restoration plaster and high-breathability dehumidifying product that removes microporous salinity such as SANABUILD® manufactured by Kerakoll. In the presence of capillary moisture rising and evident salt damp, moisten walls to saturation point with SANABUILD® FONDO water-base, anti-salinity impregnating primer manufactured by Kerakoll before plastering with SANABUILD®.

INSTRUCTIONS FOR USE

Preparation

Prepare SANABUILD® by mixing 25 kg of powder with approximately 5.5 litres of clean water. Mix by pouring water into a clean recipient (cement mixer or bucket) and then add the powder in one operation. Wait until the right consistency forms while mixing. In the first 1 – 2 minutes the product will seem dry; do not add water at this stage. Keep mixing for 5 minutes until an even, spongy and smooth mortar forms. Use all of prepared mixture; do not reuse it in subsequent mixings.
The product can also be mixed using an automatic mixer or plaster sprayer, although caution must be taken to use the lower water inlet point on the drum (the product is classified as a light plaster) and a stator-rotor suitable for the granulometry of the mixture.

Application

Apply SANABUILD® with a trowel or by spraying it like a conventional mortar. Minimum thickness required: 2 cm. Prepare the substrate and level pins then apply the rough coat, plaster, strike off and float as the product hardens. The finish will depend on the technique selected. Allow the hardened product to cure and keep it moistened during the first 24 hours.
Rough coat: the rough coat should be sprayed at a wide angle onto the washed and still damp wall. When using the water-base, anti-salinity impregnating primer SANABUILD® FONDO, apply the rough coat wet-on-wet, i.e. immediately after the application of SANABUILD® FONDO. For compact stone and concrete blocks and walls, check adhesion of the rough coat before proceeding with plastering.
Plaster: SANABUILD® has excellent workability and thixotropy properties thanks to the lightweight mixture and thermal inert materials it contains. In any case, the plaster should be applied with precision, each coat being no more than 2 cm thick even though the product lends itself easily to form thicker coats. This must be done to avoid overly thick wet plaster layers that may subsequently slide due to the different setting or drying times of the surface and the internal mass, causing micro-cracks to form.
Plaster layers on the rough coat or previous plaster coats must be applied when the lower layer is touch dry and nevertheless no later than 24 hours.
Finishing coat: SANABUILD® can be left exposed, both indoor and outdoor, when the finishing coat is applied carefully using a technique of your choice (sponge spreader, rigid float, smooth trowel, scraper). A natural, silicate finishing product such as SANABUILD® FINITURA is recommended as a finishing coat on dehumidifying plasters and plasterwork in old and new civil buildings. When applying an alternative finishing product (floating or levelling coat) use only natural, breathable mineral products in order not to jeopardize the efficiency of the SANABUILD® system.

Cleaning

Residual traces of SANABUILD® can be removed from tools with water before the product has hardened.

SPECIAL NOTES

To ensure the SANABUILD® restoration system works correctly, the surface finishing must be done using SANABUILD® FINITURA natural, silicate finishing product or other levelling or floating coats of the same breathability. Likewise, all subsequent decorative coatings of any thickness must have the same breathability properties as SANABUILD® FINITURA.

TECHNICAL CHARACTERISTICS

Appearance	Ready-mixed, natural lime coloured	
Apparent volumetric mass	≈ 1.4 kg/dm³	UEAtc
Mineralogical nature of inert material	Micro-aerated silicate - crystalline carbonate	
Granulometric interval	≈ 0 – 2.5 mm	UNI 10111
CARE	Method M1 – Action E507	
Storage	≈ 12 months in the original packaging in dry environment	
Packaging	Bags 25 kg	

TECHNICAL DATA compliant with Kerakoll Quality Standard

Mixing water	≈ 5.5 l / 1 bag 25 kg	
Spreading of mixture	≈ 70%	UNI 7044
Specific weight of the mixture	≈ 1.49 kg/dm³	UNI 7121
pH of mixture	≥ 12	
Occluded air	≥ 30%	UNI 6595
Pot life	≥ 1 h	
Temperature range for application	from +5 °C to +35 °C	
Minimum thickness obtainable	≥ 2 cm	
Maximum thickness per layer	≈ 2 cm	
Coverage	≈ 13 kg/m² per cm of thickness	

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

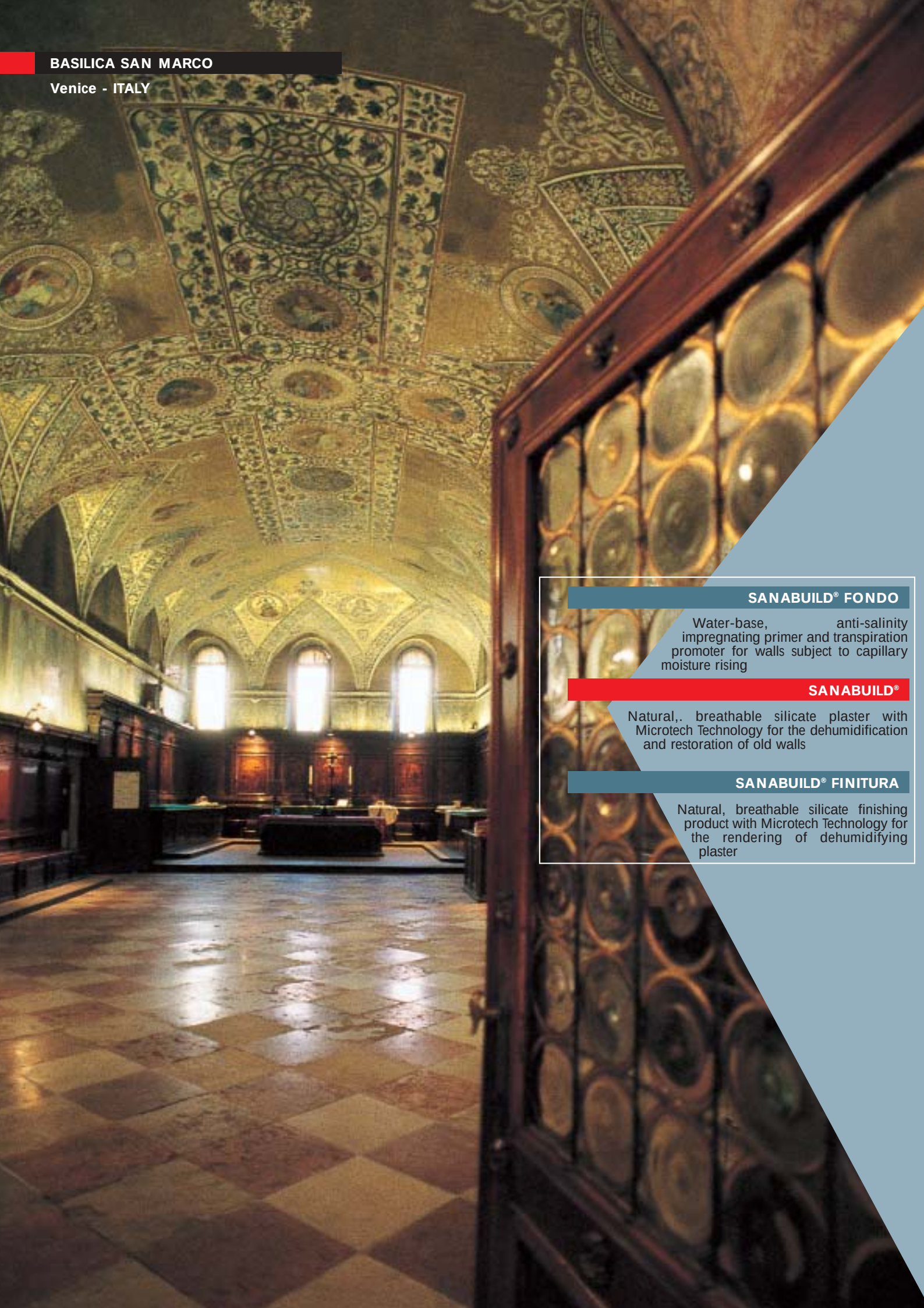
FINAL CHARACTERISTICS

Permeability to water vapour μ	≤ 7	UNI 8202
Thermal conductivity coefficient λ	≤ 0.6 W/mK	UNI 7745/77
Compressive strength after 28 days	≥ 3.5 MPa	EN 196/1
Resistance to sulphates (expansion)	≤ 1.5%	Anstett assay

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

AVVERTENZE

- **Product for professional use**
- use at temperatures between +5 °C and +35 °C
- level off wall surfaces by reconstructing missing parts (fragment-filling technique)
- make sure the substrate is not frozen
- protect surfaces from direct sunlight and wind
- do not add different binders or additives to the mixture
- do not apply on gypsum, metal or wood
- do not try to retemper mixture by adding water
- do not apply on dirty or loose surfaces
- allow the product to cure, keeping it moistened during the first 24 hours of hardening
- if necessary, ask for the safety data sheet
- for further information please consult the **Kerakoll Worldwide Global Service +39-0536.811.516**



BASILICA SAN MARCO

Venice - ITALY

SANABUILD® FONDO

Water-base, anti-salinity impregnating primer and transpiration promoter for walls subject to capillary moisture rising

SANABUILD®

Natural,. breathable silicate plaster with Microtech Technology for the dehumidification and restoration of old walls

SANABUILD® FINITURA

Natural, breathable silicate finishing product with Microtech Technology for the rendering of dehumidifying plaster

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.
Technical Service +39-0536.811.516 - Technical assistance in real time
Training Service - Professional training to support our quality
Guarantee Service - A long-lasting warranty
Kerakoll.com - The channel of choice for your projects

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.

MICROTECH TECHNOLOGY

Microtech Technology is Kerakoll's exclusive technology for the restoration of damp walls, in which natural aerating micro-particles act on the hygrometric state of the Sanabuild Dehumidifying System. It generates a structure of communicating micro-mesopores that guarantees the formation of a Diffusive Dynamic Circuit of vapour at constant pressure for the rapid elimination of the humidity.

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.

Code E536/2004-I

Kerakoll Quality System
ISO 9001 CERTIFIED ICMQ N. 421

KERAKOLL
SUPERIOR BUILDING TECHNOLOGY

T +39-0536.816.511
F +39-0536.816.581
E info@kerakoll.com
W www.kerakoll.com