

# Ülkerfarbe Biotech

## Technical Specifications

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### GENERAL INFORMATION & CONDITIONS OF USE

Ülkerfarbe Biotech is a completely organic mineral paint made from hollow glass, glass ceramic and colloidal silicas. It is capable of chemically reacting with a mineral substrate through a process known as 'silicatisation', guaranteeing perfect adhesion to its base.

Further to this, Biotech:

- Is not classified as a standard paint, nor a foam
- Is a product made using particle nanotechnology
- Contributes to improved breathability
- Promotes a comfortable internal climate
- Reduces costs associated with heating and air conditioning
- Protects surfaces from harmful substances
- Improves energy conservation which, thanks to its various certifications, may bring about a higher energy rating

This product has self-cleaning properties and combats natural substances that come into contact with its surface. These eliminate unpleasant odours as well as neutralise pollutants in the air, such as formaldehyde and solvents.

Usage guidelines: ideal for lime, cement, mortar, gypsum and drywall plasters. Suitable for use where old water or quartz based paints exist.

Ülkerfarbe Biotech conforms to DIN 18363 regulations.

### IDENTIFICATION FEATURES

Resin type: stabilised modified silicate

Materials: glass ceramic, hollow glass and colloidal silicate particles

UNI 8910 density:  $0.9 + 0.2 \text{ kg/l}$

Flow time (Ford cup no.8) at 25°C: 16 seconds  $\pm$  3 seconds

Kinematic viscosity at 25°C with Brookfield RVT viscometer, dial no. 4, speed 20:

$44000 \text{ cps} \pm 3200 \text{ cps}$

DIN 52617 W24 capillary water absorption =  $< 0.2 \text{ kg/m}^2 \text{ h}^{0.5}$

DIN 52615 water vapour diffusion resistance factor sd  $< 0.11 \text{ m}$ .

Fire resistance: Class A1.

Heat coefficient:  $\lambda 0.07 \text{ W/mK}$ .

Average anion concentration and emission: approx.  $2000/\text{cm}^3$ .

Eco-friendly product – zero VOCs.

Drying rate (at 25°C and 65% RU): around 1 hour (to the touch), 16 hours for fully dried

Color: white

### STORAGE INSTRUCTIONS

Maximum storage temperature: 30°C

Minimum storage temperature: 5°C

Available in 15L and 5L sizes.

Will remain stable for one year when stored in its original container and in appropriate conditions.

### SAFETY INSTRUCTIONS

Keep out of reach of children. Use eye and face protection. In case of contact with the eyes, immediately rinse with water and seek medical attention. This product should be transported and used according to the appropriate health and safety regulations.

#### INTENDED USE



- Biotech should never be mixed with any other type of paint.
- If a primer or fixative is used first, wait until the wall is completely dry before applying Ülkerfarbe Biotech.
- If the wall is first cleaned with sodium hypochlorite/bleach, ensure that it is completely dry
- Optimal protection against mould can be achieved through the use of specific sterilising products and a minimum of 18-24 hours drying time before applying Ülkerfarbe Biotech.

Failure to adhere to these guidelines may lead to ammonia forming and unpleasant smells to emanate from the wall.

#### IDEAL ENVIRONMENTAL CONDITIONS, INCLUDING THE SURFACE:

Ambient temperature: min. 5°C, max. 35°C.  
Relative humidity: max. 80%  
Surface temperature: min. 5°C, max. 35°C.  
Maximum surface alkalinity: PH8.  
Maximum surface humidity: 30%.

As with all chemical products, Ülkerfarbe Biotech is highly sensitive both to its support/wall and surrounding environment; as such, it is advisable to adhere to the specified guidelines. Walls should, as a minimum, be dusted or brushed in preparation, especially if there is loose paint already present. Ensure that the surface is given 28 days to set and then check that it is sufficiently solid; if not, either reconstruct it or reinforce with the appropriate product. Should old synthetic paint be present, apply a layer of siloxane fixative to reduce permeability to moisture.

Proceed to apply Ülkerfarbe Biotech according to the instructions provided. The dilution of sealant and thus the amount of product required will vary according to surface absorption. Mix the paint prior to use and spread it over the surface evenly with a roller or brush. Take care to protect any plastics, glass, ceramics, metals and natural stone in the vicinity. After completion, immediately clean any equipment or utensils with water.

#### ROLLER OR BRUSH APPLICATION.

Biotech can be used as a fixative on new plaster, gypsum and drywall surfaces when diluted with water in equal parts.

Type of dilutant: water.

Expected yield per coating: 7-8m<sup>2</sup> on moderately porous surfaces.

Dilution: approximately 200ml of water per litre of paint.

For best results, each layer of paint should measure at least 200 microns in thickness.

Drying time (at 23°C and 65% humidity): 1 hour (to touch).

Drying time for painting over: minimum 4 hours.

#### WARNING

The manufacturer, MTT Colori, advises that the information contained within this technical sheet, while corresponding to our best experience, should be considered as purely indicative and can only be confirmed by extensive practical application. As such, prior to using this product ensure that it is suitable for the intended requirements. MTT Colori does not accept any responsibility for the outcomes of using this product in that it cannot control how and where it is ultimately used; it is therefore advisable to determine the suitability of this product on a case by case basis.