

# TECHNICAL DATA SHEET OF THE PRODUCT – DIGNA PLUS BOND

*Thermal insulation plaster for application in construction industry*

## Characteristics of the coating and scope of application

**DIGNA PLUS BOND** is a mineral based thermal insulation for applications in inside and outside the construction works. It is a plaster with very high thermal insulation properties.

**DIGNA PLUS BOND** is a homogeneous high-viscosity composition of a polymer binder and mineral filler, an inorganic filler and small additives of auxiliaries that regulate the physical, chemical and functional properties of the product.

**DIGNA PLUS BOND** can be used to improve the energy characteristics of internal walls of rooms (e.g. unheated staircases) and to finish single-layer walls (e.g. made of structural clay tiles, cellular concrete blocks, etc.).

**DIGNA PLUS BOND** perfectly insulates the surfaces of historic walls (with a large number of decorative architectural elements) and external surfaces of buildings of traditional building engineering.

## Characteristics of the coating:

Adhesion to the ground (Mpa):  $0,3 \pm 0,1$

Water absorption  $W_3$ , ( $\text{kg}/\text{m}^2\text{h}^{0,5}$ ) after 24 hours:  $0,06 \pm 0,03$

Thermal conductivity  $\lambda = 0,0002 \text{ W}/\text{mK}$

Thermal resistance R: 7,25 (with coating thickness of 1 mm)

Water vapour transmission rate  $V_3$ , ( $\text{g}/\text{m}^2\text{d}$ ):  $2,27 \pm 1,00$

Diffusion depending on the thickness of the air layer  $S_d$ , m: 9,00

Density when dry:  $\text{g}/\text{cm}^3$ :  $<0,53$

The ability to reflect infrared radiation (thermo-reflection) for a white coating:  $>90\%$

Temperature of application of coating: from 10 to +25°C (above + 25°C an extension of the opening time is required \*)

\* consultation with the Manufacturer is required to change the drying parameter of the coating

#### **Preparation of substrate:**

The substrate should be dry, non-frozen, dedusted, without efflorescence, load-bearing.

#### **Application of plaster:**

**DIGNA PLUS BOND** is applied to the substrate in the same way as mineral plasters (by spraying with a plastering gun and / or trowel and rollers). The thickness of the **DIGNA PLUS BOND** coating should be from 1 to 10 mm. You can attach the mesh to the reinforcement of traditional plasters or thin-layer plasters, in this case **DO NOT USE GLUE**, but directly fix (embed) the mesh in **DIGNA PLUS BOND**.

After finishing painting works, clean the tools with water or according to the manufacturer's recommendations.

#### **Additional information:**

The product is sensitive to low temperatures! Store at a temperature from + 5 ° C to + 25 ° C in places not exposed to sunlight. **DIGNA PLUS BOND** can be colored with available dyes based on UV-resistant oxide pigments. The shelf life is 24 months from the date of production, taking into account the above-mentioned storage conditions and on condition that the packaging is tight.

VOC content (according to Directive 2004/42 FE130g / l from 2010) maximum 9 g / l.

Information sheet drawn up for MAXISOTHERM sp. z o.o.