

## **INNOVATION - TECHNOLOGY - EXPERIENCE**

**“ BENDIS“**

**“ A STABLE PARTNER IN A CHANGING WORLD ”**

**FOR ORDERS:**

**+447943403173 +40753862338**

**"SKY'S THE LIMIT"**

*image*

Today, when health and care for people has become a basic concern of the modern world, the ecological plasters that we propose have gained a role of maximum importance in the field, designers, executors as well as end customers discovering in our products not only the most efficient way of working but also a source of health, clean, natural, with a very long life, sterile, compact and light.

These advantages will make, in the near future, the majority of people to opt for this method of construction and implicit treatment.

Perfectly ecological - without any polluting residues.

Patented, checked, certified and approved by the most important profile institutions in the world.

Due to the increase in temperature, as a result of the greenhouse effect of gases released into the atmosphere, global warming has begun.

One of the biggest problems worldwide is that some of the man-made greenhouse gases are also produced in our homes and contribute to this phenomenon. Reducing global warming is mainly based on energy saving and energy efficiency. Energy efficiency is also the main result of insulation.

Since 2011, obtaining the Energy Performance Certificate has become mandatory. According to the building energy performance management directive, insulation is applied according to the stairs. According to the fire prevention regulations that came into effect in 2008, the use of flammable products such as EPS/XPS in buildings with a height of more than 21.50 m and in residential complexes has been prohibited.

Our research into new generation washable paints has been going on for over 10 years. As a result of the Product Development and Research-Development studies, a large number of insulations such as thermal insulation, sound insulation, insulation against moisture, dampness, the appearance of fungi, etc. are made by our product in a single process with a thickness of 0.5 -1 mm for washable paints.

The proposed materials represent a real revolution in construction, and when we say this we are referring to the multiple advantages that these washable paints present compared to other existing ones.

This technology applied to our buildings means that microbes, bacteria and viruses are eliminated before they have the opportunity to reach our body, most pathogens being eliminated from the initial construction phase!

*image*

*So.... BENDIS*

*Sterile, Light, Compact and Intelligent!*

*PREVENT - ANNIHILATE - CURE*

*Patented and unique technology in the world!!!*

## **WHAT IS BENDIS NEW GENERATION THERMO-INSULATING WASHBASIN?**

BENDIS washable thermal insulation was specially created to be applied to any type of mortar, gypsum plaster, traditional plaster used in the construction industry. The washable heat insulation is used in a ready-made form for the external and internal thermal insulation of buildings. This specially developed mixture is a washable paint with permanent characteristics, obtained from natural materials.

## **WHAT ARE ITS SKILLS?**

BENDIS washable thermal-hydro-phono-insulating, gives the surface on which it was applied:

**Thermal comfort**

**Acoustic comfort**

**Waterproof**

**Fire resistance**

**The ability to breathe ( Diffusion )**

**The ability to create a hygienic environment**

## **IDEAL**

## **CONSERVATION AND REVITALIZATION OF CULTURAL AND NATURAL HERITAGE**

We follow every step of technological development with the application of our quality policy, the secret of our success, without losing our ambition and confidence in the future, and we continue to follow our path without deviating from the principle of quality production.

*image*

*LOW DENSITY*

*SOUND ISOLATION*

*EASY APPLICATION*

*WATERPROOF*

*BREATHABLE PLASTER*

*INSULATION*

*FIREPROOF*

*ECOLOGICAL PRODUCT*

**PROFESSIONAL PRODUCTS FOR PROFESSIONALS**

**NEW GENERATION WASHABLE PAINT**

**THERMO-HYDRO-SOUND INSULATION**

*image*

**BENDIS**

**ECO-FRIENDLY WASHABLE**

**SAVE YOUR HEALTH - SAVE YOUR CUSTOMERS - SAVE YOUR BUSINESS**

*image*

**BENDIS – THERMOISOLATION**

**$\lambda = 0.010 \text{ W/m}^2\text{K}$**

In permanent state.

It is used on the interior, exterior, terrace and flooring of all buildings.

Cool houses in summer, warm in winter.

Your heating expenses such as natural gas will be reduced.

Electricity bills for cooling will be reduced.

It does not create a thermal bridge.

Corresponds to the Thermal Insulation Directive in Buildings.

*image*

**BENDIS – BREATHES**

Thanks to the natural components in its special formula, it has breathable characteristics.

Being natural and "breathing" prevents the formation of mold, moisture.

Does not develop odor.

It extends the life of the building

*image*

**BENDIS – ACOUSTIC ABSORPTION 25 dB**

It represents the reason why it is preferred in Hotels and public housing.

Due to the application with natural components, it has the characteristic of acoustic absorption

**BENDIS – WATER REPELLENT**

It has the water-repellent feature on vertical surfaces

It does not allow water to penetrate through capillary cracks.

Products intended for vertical surfaces, such as TERRACE, are manufactured with triple (3) the fire-retardant feature.

Thanks to its "breathing" feature and its special formula, it removes water from its contents.

*image*

### **BENDIS –FIRE RETARDANT**

In residential complexes, workplaces, high-rise buildings, only the use of these products is allowed.

It does not emit flammable carcinogenic gases. It has a flame resistance above 1500°C. Class A flame retardant product which represents the top class.

Within the Fire Prevention Norms, the use of Class A materials was required for tall buildings and residential complexes.

Within the Norms they exist! the provision "Class A materials do not contribute to combustion at any stage of combustion, including fully developed fire.

That is why it is automatically assumed that these **materials provide all the characteristics set for the lower classes.**

*image*

### **BENDIS – ECOLOGICAL**

It is a complete ecological product! The raw material is made with ecological polymers.

No global warming CO emissions. No petrochemical products are used. They do not emit fatal gas when inhaled.

### **BENDIS – LOW DENSITY – QUICK APPLICATION ECONOMICAL**

USED FOR DECORATIVE AND PROTECTIVE FINISHING OF WALLS

*image*

Bucket of 1-5-10 lt.

Used for painting all mineral-based surfaces: ordinary plasters, grouts, masonry, stone, brick, plasterboard, concrete and also as a renovation paint on old resistant dyes. It is very easy to apply, has very good adhesion to the properly prepared support and good covering power. The film is continuous, uniform, matte, fills the pores very well and is permeable to water vapor. Features quick drying. High whiteness (min 90).

### **TECHNICAL SPECIFICATIONS**

<b>CHARACTERISTICS</b>	<b>UNIT</b>	<b>BENDIS</b>	<b>STANDARD</b>
Appearance	<b>Visual</b>	<b>Liquid Paste</b>	
pH		<b>8,5 ± 1</b>	<b>Brookfield, speed 10, rotor 6</b>
Density - 19°C	<b>g/cm<sup>3</sup></b>	<b>0,75 ± 0,1</b>	<b>SR EN ISO 2811-1-2001</b>

Viscosity	cPs	min. 10.000	24 hours from the factory
Base Color		White	
VOC	g/l	< 5	
Non-Volatile Matter Content, 1h at 105°C (CS, dry matter)	%	55 ± 5	SR EN ISO 3251:2008
Consumption	0.5 mm thickness	0,52l/sqm	

### TECHNICAL CHARACTERISTICS OF THE APPLIED PRODUCT

CHARACTERISTICS	UNIT	REFERENCE	STANDARD
Traction Grip Concrete Support - Metal Support	MPa	> 0,50	SR EN ISO 4624:2003
Water permeability, concrete	Kg/m <sup>2</sup> x 0.5	< 0,1 W3 Low Permeability	SR EN ISO 1062-3:2008
Traction Grip Metal support after 240 hours of exposure to 105°C	MPa	0,64	SR EN ISO 4624:2003 SR EN ISO 3248-2001
Temperature resistance - variations on concrete after 5 exposure cycles	Visual	Does not display any Degradation	SR EN 60068-2-4:2010
Adhesion to traction support of concrete after 5 exposure cycles	MPa	1,06	SR EN ISO 4624:2003
Thermal Conductivity 10°C	W/m x K	0,0010 W/(mK), 0,82%	SR EN 12667:2004
<b>Contribution to improving the thermal resistance of the outer surface due to the reflection of solar radiation (white color) only during the sun</b>			<b>0,061 m<sup>2</sup> x K/W</b>
Water vapor transmission rate ( V )	g/m <sup>2</sup> x 24h	≥ 150	SR EN 7783:2012
Water vapor diffusion (Sd)	m	≥ 0,1	SR EN 1061-1
Durability	MPa	≥ 1	SR EN 4624/2016
Adhesion (Determination of adhesion by direct traction)	MPa	≥ 1	SR EN 4624:2016
Permeability of liquid water	Kg/m <sup>2</sup> x 0.5	≤ 0,1	SR EN 1063-3:2008 SR EN 1062-1

<b>DUBAI Central Laboratory</b> <b>Engineering Materials Laboratory Section, Structural Unit</b> <b>TEST REPORT</b>	<b>TEST METHOD:</b> <b>ASTM E 1980:01</b>
	<b>Determination of Solar Reflectance Index</b>
Solar Reflectance (%) according to ASTM C 1549-09	86,3
Emissivity ( ε ) according to ASTM C 1371-04a	0,95
Solar Reflectance Index (SRI) Low wind ( 0 - 2 m/s )	108,89
Solar Reflectance Index (SRI) Average wind ( 2 - 6 m/s )	108,81

<b>Solar Reflectance Index (SRI) Average wind ( 6 - 10 m/s )</b>	<b>108,73</b>
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AUTHORIZED by Head of Unit Of Government of DUBAI

Our product with specially developed formulas for use on the Exterior Facade, Interior Walls, Floor / Screed and Terrace / Roof of the Buildings built by you is put on the market in containers of 1 - 5 - 10 Kg

"BENDIS" THERMO-HYDRO-SOUND INSULATION

"BENDIS" WATERPROOFING

" BENDIS " FIREPROOF

" BENDIS " DECORATIVE

*image*

### **WALL PREPARATION**

- The thermal insulation of the surface to be painted must be cleaned of grease, dirt, dust, etc.
- Before use, the contents of the container are mixed very well.
- It is forbidden to mix the product with lime, humus or paints based on organic solvents.
- It is being prepared for wall application.

### **METHOD OF APPLICATION**

- The product is conditioned at 15-30°C. The paint layers will be applied undiluted.
- The drying time of the first layer is max. 12 hours, after which the final layer can be applied, which will be allowed to dry for a minimum of 24 hours.
- The material is applied by brushing, rolling, in two layers or airless spraying.
- To prevent the appearance of stains and deposits, each layer of paint will be applied in a single step in the "wet on wet" process (without interruption).
- At low temperatures and/or higher humidity, a longer drying time is needed.

### **ESTIMATED CONSUMPTION - 1L/m<sup>2</sup> for a 1mm thick layer.**

- The exact value of the specific consumption will be determined after an on-site test, depending on the type and quality of the support.
- On very rough surfaces, a larger amount will be applied.

NOTE: The product can be applied both manually and mechanically.