



**Natural Shield**

**ECO-FRIENDLY  
THERMAL INSULATION PLASTER**



**[www.bsnyapi.com.tr](http://www.bsnyapi.com.tr)**



## MISSION & VISION

The R&D process started in 2008 for the development of the product i.e. Natural Shield Thermal Insulation Plaster. Finally, on 24th January 2014 BSN YAPI was established by the determination of our visionary leadership.

Since the establishment of the company we have strictly focused on providing the best product and services to our customers and have been successful in gaining a handsome share of the thermal insulation market. Our product is innovative, environment friendly and time-saving in terms of application which has made our journey towards global distribution of the products smoother.

We have two production plants, one in Tekirdag, Turkey and the other in Yaounde, Cameroon.

### **Our production plant in Turkey**

The plant in Tekirdağ has the capacity of 1000 tons Natural Shield Insulation Plaster per month. Capable of producing more than 20 different products where primary focus is on Natural Shield Insulation Plaster.

### **Our Production Plant in Cameroon**

A joint venture between BSN YAPI and SIANTOU AFRICA BUILDING (SAB) SARL, the production plant in Yaounde, Cameroon is almost complete. The production will start in May 2018.

With a starting capacity of around 2500 tons of Natural Shield Insulation Plaster production per month, the plant will provide the product to other Central African countries. Expansion of the capacity is planned in the future with rising demand of the product.



**NATURAL SHIELD  
THERMAL INSULATION  
PLASTER (INTERNAL)**

**NATURAL SHIELD  
DECORATIVE PLASTER  
(INTERNAL)**

**NATURAL SHIELD  
THERMAL INSULATION  
PLASTER (EXTERNAL)**

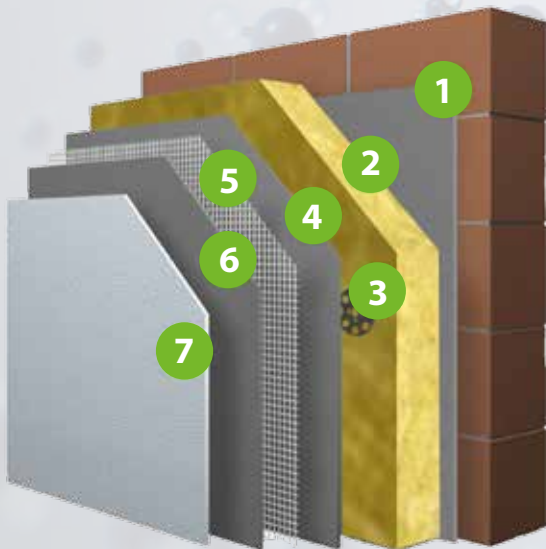
**NATURAL SHIELD  
DECORATIVE PLASTER  
(EXTERNAL)**



**NATURAL SHIELD IS AN INNER AND OUTER LAYER THERMAL INSULATION PLASTER WITH EXCELLENT FIRE RESISTING PROPERTIES, HIGH GRADE SOUND INSULATION AND LIGHT AS A FEATHER.**

# ONE LAYER APPLICATION

**One layer of application, many benefits**



- 1- Black Plaster**
- 2- Traditional Insulation Materials**
- 3- Wall Plug**
- 4- Mesh**
- 5- Plaster**
- 6- Decorative**
- 7- Paint**



**APPLY ON ANY SURFACE WITH A SPRAY MACHINE OR A TROWEL****Application With Usual Plaster Machines:**

No complex equipment or machinery is required for the application of Natural Shield. It can easily be applied with the usual plaster spraying machines. The product starts to lose its water content right after application. After a day or two, depending on the temperature and other environmental factors it gets ready for the decorative or any other type of finishing materials to be applied over it.

**Manual Application:**

One bag of Natural Shield Insulation Plaster is put into a 30-40 liters bucket. After adding 5 lt of water into the bucket it is mixed through a mixer and the mixture is ready to use. There is no need for an extralining or filling before application. Laths are used to obtain the desired thickness and plainness. The material is applied with the help of a suitable trowel between the laths.



## IMPORTANCE OF FIRE RESISTANT INSULATION MATERIALS

More than 40% of fire incidents every year are construction related and a large amount of these are because of the traditional, flammable insulation materials. The usage of non-flammable insulation materials is vital for fire safety.



Natural Shield Insulation Plaster is resistant to more than 800 °C fires for up to two hours. During fire Natural Shield does not deteriorate or produce smokes and harmful emissions.



## A1 CLASS FIRE RESISTANT

- TWO HOUR RESISTANCE TO 1100 °C
- NO DETERIORATION
- PROTECTS THE BUILDING FROM FIRES
- STOPS FIRE FROM SPREADING
- NO SMOKE OR HARMFUL EMISSION

<b>PROPERTY</b>	<b>DESCRIPTION</b>
<b>Thermal Insulation</b>	<b>T1 (TS EN 1745)</b>
<b>Sound Insulation</b>	<b>42 db (1000 Hz) (TS EN 2140-10)</b>
<b>Flammability Class</b>	<b>A1 Class (TS EN 13501-1)</b>
<b>Water Absorbance</b>	<b>W1 (TS EN 1015-18)</b>
<b>Resistance to Pressure</b>	<b>CS2 (TS EN 1015-11)</b>
<b>Water Vapor Diffusion Resistance Factor (<math>\mu</math>)</b>	<b>5,5 (TS EN 1015-19)</b>
<b>Duration of full drying at 50% relative humidity</b>	<b>28 Days</b>
<b>Dry Density</b>	<b>320-360 kg/m<sup>3</sup> (TS EN 1015-10)</b>
<b>Appearance</b>	<b>White</b>
<b>Mixing Ratio</b>	<b>20 Kg / 10 Lt of water</b>
<b>Application Temperature</b>	<b>+5°C and above</b>
<b>Application Thickness</b>	<b>5 to 170 mm</b>
<b>Application Method</b>	<b>Steel Trowel or pft 4-5 machine</b>
<b>Application Surfaces</b>	<b>Coarse concrete, brick, plaster, stone, wood and other similar surfaces.</b>

# TEST REPORTS

**TICEM**  
TICEM LABORATUVAR

**BUN YAPIMAZENLERİ FİBRALAT İBRACAT İNŞAAT SAN. VE TİC. A.Ş. VE**

**PLASTER TESTİ RAPORU**

Rapor No: TCM-1975-02/06-2017

**İsteyen AKARCI**      **Deney YERİ SAĞ**  
T.C. İnceleme ve Deney Kurumu      T.C. İnceleme ve Deney Kurumu

**DeneyciLER**  
DeneyciLER

**TICEM**  
TICEM LABORATUVAR

**1.1. Özet: 1. Sırttan atışma testi için beton duvarın kırılması durumu. Numaralandırılmış beton duvarlar.**

Bu rapor, beton ve çimento esaslı harçlar için yapılabilecek en yüksek basınçlı beton duvarın kırılması testini tanımlar. Bu test, beton duvarın kırılması için gereken minimum enerjiyi belirler. Beton duvarın kırılması için gereken minimum enerjiyi belirler. Beton duvarın kırılması için gereken minimum enerjiyi belirler.

**DeneyciLER**  
DeneyciLER

**TICEM**  
TICEM LABORATUVAR

**Figure 1: Sırttan atışma testi sonucu.**

**Figure 2: Betonun kırılması durumu.**

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**TÜRKAK FÖRE ABRASİYON KURUMU**  
TÜRKAK ABRASİYON KURUMU

**İNŞAAT SAN. VE TİC. A.Ş.**

**Deney RAPORU**

**Deney No: TCM-1975-02/06-2017**

**İsteyen AKARCI**      **Deney YERİ SAĞ**  
T.C. İnceleme ve Deney Kurumu      T.C. İnceleme ve Deney Kurumu

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**İSTİFENİN ANKARA TEST VE DEĞERLENDİRME A.Ş.**

**Fire Test Laboratory**

**Classification of Reaction to Fire in Accordance With EN 13501-1:2007+A1:2009**

**Specimen:** 100 mm x 100 mm x 100 mm (300 mm x 300 mm x 100 mm) (EN 13501-1:2007+A1:2009)

**Product name:** 100 mm x 100 mm x 100 mm (300 mm x 300 mm x 100 mm) (EN 13501-1:2007+A1:2009)

**Classification Report No:** TCM-1975-02/06-2017

**REACTION TO FIRE CLASSIFICATION REPORT No. TCM-1975-02/06-2017 Page 4**

**4.1. Classification:** A1

The additional classification in relation to smoke production is not classified.

The additional classification in relation to flaming droplets is not classified.

The final classification for the classification for EN 13501-1:2007+A1:2009 is:

Classification	Smoke production	Flaming droplets
A1	0	0

**Classification by the classification: A1**

**4.2. State of specimen:** The classification is valid for the following product (specimens):

Product name	Depth (mm)	Width per unit area (mm²)	Condition
100 mm x 100 mm x 100 mm (300 mm x 300 mm x 100 mm)	100	1	Specimen tested under standard conditions and conditions of use.

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**TÜRKAK FÖRE ABRASİYON KURUMU**  
TÜRKAK ABRASİYON KURUMU

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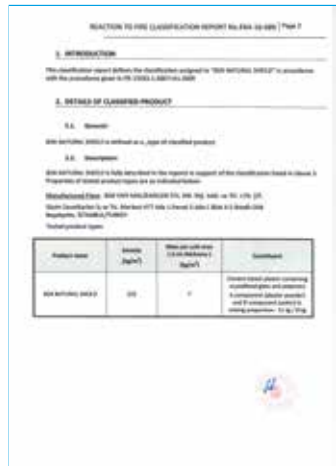
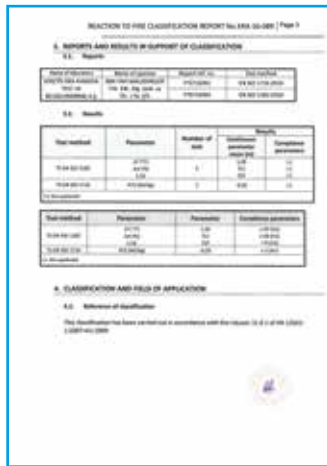
**REACTION TO FIRE CLASSIFICATION REPORT No. TCM-1975-02/06-2017 Page 5**

**5. LIMITATIONS**

**5.1. Specimens:** The classification report is valid provided that the technical specifications of products are within the scope of the test of classification class A1.

**5.2. Warning:** The classification does not represent legal approval or certification of the product.

**İsteyen AKARCI**      **Deney YERİ SAĞ**  
T.C. İnceleme ve Deney Kurumu      T.C. İnceleme ve Deney Kurumu



# SIANTOU AFRICA BU

**Lagos, Nigeria**

**Casablanca, Morocco**

**Moscow, Russia**

**Douala, Cameroon**

**Yaounde, Cameroon**



## REFERENCES

### TURKEY

İstanbul

Sakarya

Kayseri

Ordu





## REFERENCES

Cameroon

USA

Russia

Spain

Saudi Arabia

Philippines

Pakistan



**RESTORE HISTORICAL BUILDINGS WITH NATURAL SHIELD**



**BEFORE**



- **Natural Shield gives a natural look to the building**
- **Can be manufactured in the color most suitable for the building to be restored.**



**AFTER**







**Natural Shield**



## **OUR DISTRIBUTORS & REPRESENTATIVES**

Adana, Düzce, Kayseri, Kocaeli, Istanbul, Sakarya, Sivas, Yozgat

Qatar, Kuwait, Yemen, Syria, Algeria, Tunisia, Libya, Morocco, Egypt, Sudan

Bulgaria, Serbia, Greece, Montenegro

Russia and Central Asian countries

USA, Cameroon, Germany, Saudi Arabia, Pakistan, Philippines

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