


**TÜRK STANDARDLARI ENSTİTÜSÜ**  
**DENEY ve KALİBRASYON**  
**MERKEZİ BAŞKANLIĞI**  
**YAPI MALZEMELERİ YANGIN VE AKUSTİK**  
**LABORATUVAR MÜDÜRLÜĞÜ**

**TURKISH STANDARDS INSTITUTION**  
**HEADSHIP OF TSE TEST and CALIBRATION CENTER**  
**CONSTRUCTION MATERIALS FIRE AND ACOUSTICS LABORATORY**

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**TÜRKAK**  
**TÜRK AKREDITASYON MERKEZİ**  
**BAŞKANLIĞI**

AB-0001-T  
161687  
06-22

**MUAYENE VE DENEY RAPORU**  
**TEST REPORT**

**Deneysel Talep Eden/Firma :**  
*(Adı, Adresi, Şehiri vb.)*  
Requesting Customer (Name, Address, City etc.)

**Deneysel Talep Tarihi / No :**  
Order Date/No.

**Numunenin Tanımı :**  
*(Çivi, Marka, Sınıf, Tip, Tür, Model vb.)*  
Sample Description (Type, Mark, Class, Model etc.)

**Numune Kabul Tarihi :**  
Sample Receipt Date

**Deneysinin Yapıldığı Tarih :**  
Date of Test

**Uygulanan Standart Metot :**  
Applied Standard/Method

**Raporun Sayfa Sayısı :**  
Number of pages of the report

**Deneysel Sonuç :**  
Test Result

**Açıklamalar :**  
Remarks

BORPAINT BOYA VE YALITIM TEKNOLOJİLERİ İNŞAAT SANAYİ TİCARİET ANONİM ŞİRKETİ  
haskan boya süzüz kümecevi 218/1

7.04.2022 / 2022-61040

2022-086346, BORPAINT, BORPAINT, BORFIREPROOF, 1, 1.00, set

12.04.2022

30.05.2022 / 09.06.2022

TS EN 13501-1/Yapi malzemeleri ve yapı elemanları, yangın sınıflandırması bölüm 1: Yangın karşısındaki davranış deneylerinden elde edilen veriler kullanılarak sınıflandırma

4


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Yukarıda tanımlanan numune için laboratuvarımızda yapılan muayene ve deneylerden elde edilen sonuçlar aşağıdaki tabloda verilmiştir. The testing and/or measurement results are given on the following pages which are part of this report.

Deneysel laboratuvarlarımızla çalışarak TSE Deneysel ve Kalibrasyon Merkezi Başkanlığı Deneysel Laboratuvarları TÜRKAK'tan AB-0001-T ile TS EN ISO/IEC 17025:2017 standardına göre akredite edilmiştir. TSE Headship of Test and Calibration Center Testing Laboratories accredited by TÜRKAK under registration number AB-0001-T for TS EN ISO/IEC 17025:2017 as test laboratory.

TÜRKAK deneysel raporlarımızın tamamı Avrupa Akreditasyon Birliği (EA) ile Çok Taraflı Anlaşma ve Uyumlaştırma Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tamama anlaşma imzalanmıştır. TÜRKAK is a signatory to the European co-operation for accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.


Deneysel ve/veya deney sonuçları, genel olarak deney belgeleri (deney belgesi) ve deney metodları bu raporun tamamıyla aynı olan talep eden sayfalarla verilmektedir. The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

<b>Karekod</b> QR Code	<b>Tarih</b> Date	<b>Deneysel Sorumlusu</b> Person in charge of test	<b>Kontrol Eden</b> Reviewer	<b>Onaylayan</b> Head of Laboratory
	09.06.2022	BAHAHİDİ POLAT	ARDA ATAOL	SENCER GÜVEN

Bu rapor, hazırlanan laboratuvarın ilgili test standardına uygun şekilde yapıldığını göstermektedir. Bu rapor, sadece deneysel yapıldığı numune için geçerlidir ve "Ürün Belgesi" yerine geçmez. This test report shall not be reproduced other than in full except with the written permission of the laboratory. Test reports without signature and seal are not valid. This test report represents only tested samples, and shall not be used as Product Certificate.


**Bu doküman elektronik ortamda imzalanmıştır.**  
Doğrulama adresi: <https://hazirana.tse.org.tr/szy/QRKodDogrulama?code=CCC186>

## TSE Inspection and Experiment Report



**TSE DENEY ve KALİBRASYON MERKEZİ BAŞKANLIĞI YAPI MALZ. YANGIN VE AKUSTİK LAB.**  
**HEADSHIP OF TSE TEST and CALIBRATION CENTER CONSTRUCTION MATERIALS FIRE and ACOUSTICS LAB.**

**MUAYENE - DENEY SONUÇLARI** **TEST RESULTS**



AB-0001-T  
161687  
06-22

**2.2. Product Description**

<b>General Description</b>	Long-lasting construction topcoat paint with improved reaction fire performance, that can be used on all kinds of surfaces.
<b>Trademark</b>	BORPAINT
<b>Product Code</b>	BORFIREPROOF
<b>Related Specification(s)</b>	TS EN 1504-2:2005

Samples Properties (Designated Features)	
Consumption rate	1.coat 2 kg/m <sup>2</sup> 2.coat 2 kg/m <sup>2</sup>
Application	Roll brush
Packaging	20 kg

**3. Test Reports and Results in Support of This Classification Report**

**3.1. Reports**

Following test reports were taken into account in the determination of this classification.

Laboratory	Sponsor	Test Report Reference No	Test Method
TSE Construction Materials Fire and Acoustics Laboratory	BORPAINT BOYA VE YALITIM TEKNOLOJİLERİ İNŞAAT SANAYİ TİCARİET ANONİM ŞİRKETİ	161594	TS EN ISO 1716: 2018-11
		06-22	
TSE Construction Materials Fire and Acoustics Laboratory	BORPAINT BOYA VE YALITIM TEKNOLOJİLERİ İNŞAAT SANAYİ TİCARİET ANONİM ŞİRKETİ	161679	TS EN 13823+A1: 2015-02
		06-22	


**3.2. Results**

Results of the test reports mentioned in 3.1 and the classification criteria corresponding to class A2-s1,d0 as stated in TS EN 13501-1:2019 are given in the following table.

Test Method	Parameter	Number of Tests	Test Results	
			Mean of continuous parameters	Non-continuous parameters
TS EN ISO 1716	For substantial component Qpcc ≤ 3,0 MJ/kg	3	1,499	(-)
TS EN 13823+A1	FIGRA <sub>A2</sub> ≤ 120 W/s	3	9,01	(-)
	FIGRA <sub>A4</sub>		9,01	(-)
	THR <sub>600</sub> ≤ 7,5 MJ		1,09	(-)
	LFS < Edge of the sample		(-)	LFS < Edge
	SMOGR <sub>A</sub> ≤ 30 m <sup>3</sup> /s <sup>2</sup>		0,00	(-)
	TSP <sub>600</sub> ≤ 50 m <sup>3</sup>		8,27	(-)
	No flaming droplets in 600 s		(-)	No flaming droplets


(-) Not applicable.

## TSE Inspection and Experiment Report



**TSE DENEY ve KALİBRASYON MERKEZİ BAŞKANLIĞI YAPI MALZ. YANGIN VE AKUSTİK LAB.**  
**HEADSHIP OF TSE TEST and CALIBRATION CENTER CONSTRUCTION MATERIALS FIRE and ACOUSTICS LAB.**

**MUAYENE - DENEY SONUÇLARI** **TEST RESULTS**



AB-0001-T  
161687  
06-22

**4. Classification and Direct Field of Application**

Declaration of reaction to fire class : A2

**4.1. Reference of classification**

This classification has been carried out in accordance with clause 11.7.3, clause 11.9.2 and clause 11.10.1 of TS EN 13501-1:2019

**4.2. Classification**

In relation to its reaction to fire behaviour, the product "trademarked BORPAINT, with product code BORFIREPROOF, Long-lasting construction topcoat paint with improved reaction fire performance, that can be used on all kinds of surfaces." has been classified as:

A2

In relation to its reaction to fire behaviour, the product "trademarked BORPAINT, with product code BORFIREPROOF, Long-lasting construction topcoat paint with improved reaction fire performance, that can be used on all kinds of surfaces." has been classified as:

s1

In relation to its reaction to fire behaviour, the product "trademarked BORPAINT, with product code BORFIREPROOF, Long-lasting construction topcoat paint with improved reaction fire performance, that can be used on all kinds of surfaces." has been classified as:

d0

Fire behaviour	Smoke production	Flaming droplets
A2	s1	d0

**REACTION TO FIRE CLASS: A2-s1,d0**

**4.3. Field of Application**

This classification is valid for the products manufactured with the same recipe, same type, under the same product name in the following end use applications.

Substrate	Applications involving the fixing of the product to a substrate with reaction to fire class of at least A2-s1,d0 (thickness≥ 12 mm, density≥ 525 kg/m <sup>3</sup> , including gypsum plasterboard surfaces)
Consumption rate	4 kg/m <sup>2</sup> (applied as two coats)


**5. Limitations**

At the time of publishing of the standard TS EN 13501-1:2019, there wasn't any decision concerning the duration of validity of a classification report.


The present document represents neither type approval nor certification of the product.

End of classification report.

## TSE Inspection and Experiment Report



**TURCERT**  
**Certification Body**





**INSPECTION REPORT**  
**EUROLAB LABORATORY SERVICES**  
**KÜLTÜR YOLU 9. KAT, 34398 BEŞİKÖZ/İSTANBUL**


**Report No:** 2022110456  
**Applicant:** BORPAINT Yalıtım ve Boya Teknolojileri İnc. Tic. A.Ş.  
**Contact Person:** A. İKREM NİFİS  
**Telephone:** 0312 366 72 70  
**Contact e-mail:** ekrem@haskanboya.com.tr  
**Sample Accepted on:** 09.03.2022  
**Report Date:** 22.04.2022  
**Total number of pages:** 4 (4/4)

**Sample ID:** BORPAINT BOYA

TEST	METHOD	SPECIMEN	RESULT
Thermal Performance Of Building Materials And Products- Determination Of Thermal Resistance By Means Of Guarded Hot Plate And Heat flow Meter Methods — Dry And Moist Products Of Medium And Low Thermal Resistance	EN 12664	BORPAINT BOYA	0,0285 W/(m.K)

**Seal:** 

**Customer Representative:**  İbrahim NİFİS

**Laboratory Manager:**  Merve ÖZÜL

**Address:** Mh. Dr. Süleyman Akerel Cad. No:39/4 D. BAĞCILAR / İSTANBUL  
**Tel:** 0312 702 20 70 **Fax:** 0312 908 21 10  
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Page 1/1

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BORPAINT Certificate Of Conformity



BORFIREPROOF Certificate Of Conformity



BORROOF Certificate Of Conformity



BORSTUCCO Certificate Of Conformity



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Çanakkale Onsekiz Mart Üniversitesi



**CEKAM, Enerji Kaynakları Uygulama ve Araştırma Merkezi**

Determination of Thermal Conductivity (\*)

Report No/Date: 15.03.2021

Application No/Date: 15.01.2021

**BORPAİNT BOYA VE YALITIM TEKNOLOJİLERİ İNŞAAT SANAYİ  
TİCARET ANONİM ŞİRKETİ**

The thermal conductivity determination of the **BORPAİNT BOR MİNERALLİ İÇ DİŞ CEPHE İSİ YALITIM BOYASI** producing in your company was made by a thermal conductivity tests. The experimental results are collected following.

**DETERMINATION OF THERMAL CONDUCTIVITY**

Thermal conductivities of the specimens were obtained by heat flow meter apparatus according to ISO 8301 standard. Specimens having the dimensions of 30 cm x 30 cm were used in experimental study.  $\lambda$  values are given in the Table below.

Specimen #	Specimen thickness (mm)	Thermal conductivity coefficient $\lambda$ , (W/mK) (**)
1	1,7	0,020
2	1,8	0,021
3	2,0	0,021
	Average	0,021

Issuing of this document in any press is not allowed.

(\*) This report is the English translation of the Turkish version having the same report number.

(\*\*) Thermal conductivity coefficient is independent from thickness. In order to obtain the same thermal insulation performance from two materials having same thermal conductivity coefficient value, the materials should be applied with the same thickness.

Doç. Dr. Uğur Cengiz  
ÇEKAM Müdür Yrd.

Doç. Dr. Necati Kaya  
ÇEKAM Müdürü

BORPAİNT CEKAM Inspection and Experiment Report



Çanakkale Onsekiz Mart Üniversitesi



**CEKAM, Enerji Kaynakları Uygulama ve Araştırma Merkezi**

Determination of Fire Resistance (\*)

Report Date: 15.03.2021

Application Date: 15.01.2021

**BORPAİNT BOYA VE YALITIM TEKNOLOJİLERİ İNŞAAT SANAYİ  
TİCARET ANONİM ŞİRKETİ**

The fire resistance determination of the **BORFIREPROOF BOR MINERAL FIRE-RESISTANT PAINT** producing in your company was made by a flame test. The experimental results are collected following.

**FIRE RESISTANCE DETECTION**

1. The **BORFIREPROOF BOR MINERAL FIRE-RESISTANT PAINT** specimen which is coated on Styrofoam foam 50 cm X 30 cm sized was applied flame for 120 minutes from 10 cm. (Average 1450 °C),
2. The **BORFIREPROOF BOR MINERAL FIRE-RESISTANT PAINT** specimen which is coated on drywall sheet 25 cm X 25 cm sized was applied flame for 120 minutes from 10 cm. (Average 1450 °C),
3. The **BORFIREPROOF BOR MINERAL FIRE-RESISTANT PAINT** specimen which is coated on cardboard 50 cm X 30 cm sized was applied flame for 120 minutes from 10 cm. (Average 1450 °C),

In all three experiments, it is observed that there is no ignition and no flames on the surface of samples exposed to flame for 120 minutes.

(\*) This report is the English translation of the Turkish version having the same report date.

Doç. Dr. Uğur Cengiz  
ÇEKAM Müdür Yrd.

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BORFIREPROOF CEKAM Inspection and Experiment Report



Çanakkale Onsekiz Mart Üniversitesi



**CEKAM, Enerji Kaynakları Uygulama ve Araştırma Merkezi**

Determination of Thermal Conductivity (\*)

Report No/Date: 15.03.2021

Application No/Date: 15.01.2021

**BORPAİNT BOYA VE YALITIM TEKNOLOJİLERİ İNŞAAT SANAYİ  
TİCARET ANONİM ŞİRKETİ**

Determination of thermal conductivity tests were carried out on the material named as **BORROOF PAINT** by producer. Test results are given below.

**DETERMINATION OF THERMAL CONDUCTIVITY**

Thermal conductivities of the specimens were obtained by heat flow meter apparatus according to ISO 8301 standard. Specimens having the dimensions of 30 cm x 30 cm were used in experimental study.  $\lambda$  values are given in the Table below.

Specimen #	Specimen thickness (mm)	Thermal conductivity coefficient $\lambda$ , (W/mK) (**)
1	1,7	0,021
2	1,6	0,020
3	1,9	0,021
	Average	0,021

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BORROOF CEKAM Inspection and Experiment Report



Çanakkale Onsekiz Mart Üniversitesi



**CEKAM, Enerji Kaynakları Uygulama ve Araştırma Merkezi**

Determination of Thermal Conductivity (\*)

Report No/Date: 15.03.2021

Application No/Date: 15.01.2021

Determination of thermal conductivity tests were carried out on the material named as **BORSTUCCO** by producer. Test results are given below.

**DETERMINATION OF THERMAL CONDUCTIVITY**

Thermal conductivities of the specimens were obtained by heat flow meter apparatus according to ISO 8301 standard. Specimens having the dimensions of 30 cm x 30 cm were used in experimental study.  $\lambda$  values are given in the Table below.

Specimen #	Specimen thickness (mm)	Thermal conductivity coefficient $\lambda$ , (W/mK) (**)
1	3,0	0,020
2	3,5	0,019
3	4,0	0,020
	Average	0,020

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