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TSE DENEY ve KALİBRASYON MERKEZİ BAŞKANLIĞI

Elektroteknik ve Makine Laboratuvar Grup Başkanlığı (Gebze)

EX Laboratuvarı Müdürlüğü (İzmir)

Adres:Tariş Pamuk Depoları Arkası Çiğli/ İZMİR
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HEADSHIP OF TSE TEST and CALIBRATION CENTER
EX LABORATORY (İZMIR)

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Test
TS EN ISO/IEC 17025
AB-0001-T

AB-0001-T
139921
02-12

MUAYENE VE DENEY RAPORU
TEST REPORT

Deneyi Talep Eden (Adı,Adresi,Şehir vb.) *Customer (Name,Adress,City etc.)*	:	ISONEM YAPI KIMYASALLARI VE BOYA SAN.VE TİC.LTD.ŞTİ DÖKÜMCÜLER SAN.SİTEŞİ 106/9 SOKAK NO.6 IŞIKKENT/İZMİR --İZMİR)
Deney Talep Tarihi/No *Order Date / No*	:	12.12.2011 / 62569
Numunenin Tanımı (Cins, Marka, Tip, Tür, Model vb.) *Sample Description(Type,Mark,Model etc.)*	:	ANTİ-FIRE SPAINT, ISONEM , , - , - , 20.00 kilogram *POLYMER-BASED PAINT (Fire Retardant Interior Wall Paint),ISONEM,,,,20,00 kilogramme*
Numunenin Alındığı Tarih *Sample Receipt Date*	:	09.12.2011 Numune,müşteri tarafından alınmıştır
Deneylerin Yapıldığı Tarih *Date of Test*	:	14.12.2011 - 14.02.2012
Uygulanan Standard / Metod *Applied Standard/Method*	:	TS EN ISO 11925-2:2010 :2011-04 Yangın dayanımı deneyleri – Aleve doğrudan maruz kaldığında tutuşabilirlik – Bölüm 2: Tek alev kaynağıyla deney +TS EN ISO 11925-2:2010/AC:2011 :2011-04 *TS EN ISO 11925-2:2010 :2011-04 Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test +TS EN ISO 11925-2:2010/AC:2011 :2011-04*
Raporun Sayfa Sayısı *Number of pages of the report*	:	4
Açıklamalar *Remarks*	:	

Türk Akreditasyon Kurumu(TÜRKAK) deney raporlarının tanınması konusunda Avrupa Akreditasyon Birliği(EA) ve Uluslararası Laboratuvar Akreditasyon Birliği(ILAC) ile karşılıklı tanınma antlaşmasını imzalamıştır.
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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.
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Mühür *Seal*	**Tarih** *Date*	**Deney Sorumlusu** *Person in charge of tests*	**Kontrol Eden** *Reviewer*	**Onaylayan** *Approved by*
	14.12.2012	Önder Volkan BALCI Tekniker	Önder Volkan BALCI Tekniker	Tacettin AKGÜN Laboratuvar Müdürü

TS EN ISO 11925-2 : 2010 / April 2011

Building Materials – Fire Resistance Tests – Combustibility When Exposed to Direct Flame– Part 2: Single-Flame Source Test

Calibration and Testing Center of TSE Head of Electrotechnical and Mechanical Laboratories Group Directorate of Ex Laboratory	Address/ Addresses : 8780\1 Sok. No:5 Tariş Pamuk Depoları Arkası Çiğli / İZMİR

Decisions to be Taken in Consequence of Inspections and Tests :

If Related Rule/Test not necessary to be applied to the Specimen (**U**napplied to **S**pecimen)	: US
If the Tested Specimen Conforms to the Rules (**P**assed)	: P
If the Tested Specimen does not conform to the Rules (**F**ailed)	: F
If there is a Rule/Test that could not be Applied due to Any Reason (**U**ndone)	: U

General Evaluations :

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COMPANY STATEMENTS: **ISONEM YAPI KİMYASALLARI VE BOYA SAN. VE TİC. LTD. ŞTİ.**

Characteristics of the test sample;

ISONEM ANTI-FIRE PAINT

POLYMER-BASED PAINT **(Fire Retardant Interior Wall Paint)**

Clause	Rule / Test	Result / Remark	Decision
	Behavior across fire Behavior across fire of the products (European Class) according to EN 13501-1.	EN 13501-1 Class B criterias were applied.	P
	Clause 8.1 (TS EN 13501-1) **Class** B The product is tested according to TS EN ISO 11925-2 for determine compliance with Class E using the exposure time of 30 sec.		
	Clause 10.3 (TS EN 13501-1) **Class** B The product must ensure the following criterias : In case of exposure to flame from surface and when necessary exposure to flame from edge for a period of 15 s (Clause 6.3), after exposure to flame within 20 s musn't show flame spread over more than 150 mm vertically from the application point.	Class B **Were exposed to flame for 30 s from the surface.**	P
	Clause 4.5 (TS EN ISO 11925-2) **Sample Carrier** Sample carriers are U-shaped, 15 mm wide, (5 ± 1) mm thickness a pair of stainless steel. Frame hangers placed vertical position according to the support and the central portion of the sample from the bottom and from the edges to be exposed to flame. Two arms of the sample carrier each tipped with a screw or clamp to prevent further displacement of the sample.		
	Clause 5.2 (TS EN ISO 11925-2) **Dimensions** The test samples must be 250 (+0 -1) length and 90(+0-1) wide.	Length 250 mm Width 90 mm Thickness 2 mm (Application on the sheet was 12 mm calcium silicate.)	P
	Clause 6 (TS EN ISO 11925-2) **Conditioning** The test samples and filter paper must conditioned as specified in EN 13238: 2010.	Duration of conditioning: 8 Weeks Conditioning Temperature: 23 ± 2 °C Humidity Conditioning : 50 ± 5 % (EN 13238 :2010 Clause 4.3 a)	P
	Clause 7.1 (TS EN ISO 11925-2) **General** Tests can applicable 15 s or 30 s on condition that determined by who wants to tests.	30 s. selected. (class B)	P
	Clause 7.4 (TS EN ISO 11925-2) **Duration of Test** Test time is 20 s if flame application duration selected as 15 s, test time is 60 s if flame application duration selected as 30 s.	Test duration is 60 s. (Class B)	P
	Clause 8.2 (TS EN ISO 11925-2) The following saved for each test sample. a) Whether to be combustion or not, b) Whether flame height reached 150 mm or not from the flame application point and the reach duration of this height of flame , c) Whether burning on the filter paper or not, d) Observations of physical characteristics of the test samples.	a) Combustion wasn't at the samples. b) Flame did not reach the measuring line 150 mm within test period. c) Drip wasn't from the samples filter paper did not burn. d) Melting was at the test sample.	P

TABLE 1 (TEST RESULTS)

Number of samples	Combustion (Yes/No)	Flame spread to 150 mm (Yes/No)	150mm Flame Spread Time(T150) *Den.Sür. Fs≤150 mm -Passed Den.Sür. Fs≥150 mm - Failed*	Combustion filter paper (Yes/No)	Conclision
1	No	No	-	No	P
2	No	No	-	No	P
3	No	No	-	No	P
4	No	No	-	No	P
5	No	No	-	No	P
6	No	No	-	No	P

RESULT

This test result relates to the behavior of the test sample is applied under special conditions. This test result is not the only relevant criterion for the product's evaluation of a potential fire hazard.

ISONEM YAPI KİMYASALLARI VE BOYA SAN. VE TİC. LTD. ŞTİ. company that has produced **ISONEM** Trademark **POLYMER-BASED PAINT (Fire Retardant Interior Wall Paint, White)** samples tested according to **TS EN ISO 11925-2 :2010 / April 2011** numbered Turkish Standard.

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Test
TS EN ISO/IEC 17025
AB-0001-T

AB-0001-T
139912
02-12

MUAYENE VE DENEY RAPORU
TEST REPORT

Deneyi Talep Eden (Adı,Adresi,Şehir vb.) *Customer (Name,Adress,City etc.)*	:	ISONEM YAPI KIMYASALLARI VE BOYA SAN.VE TİC.LTD.ŞTİ DÖKÜMCÜLER SAN.SİTEŞİ 106/9 SOKAK NO.6 IŞIKKENT/İZMİR --İZMİR)
Deney Talep Tarihi/No *Order Date / No*	:	12.12.2011 / 62569
Numunenin Tanımı (Cins, Marka, Tip, Tür, Model vb.) *Sample Description(Type,Mark,Model etc.)*	:	ANTİ-FIRE SPAINT, ISONEM , , - , - , 20.00 kilogram *POLYMER-BASED PAINT (Fire Retardant Interior Wall Paint),ISONEM,,,,20,00 kilogramme*
Numunenin Alındığı Tarih *Sample Receipt Date*	:	09.12.2011 Numune,müşteri tarafından alınmıştır
Deneylerin Yapıldığı Tarih *Date of Test*	:	14.12.2011 - 14.02.2012
Uygulanan Standard / Metod *Applied Standard/Method*	:	TS EN 13823:2010 :2011-01 Yapı Ürünleri İçin Yangına Tepki Deneyleri-Tek Bir Yakma Unsuru İle Isıl Etkiye Maruz Kalan-Döşemeler Haricindeki Yapı Ürünleri *TS EN 13823:2010 :2011-01 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item*
Raporun Sayfa Sayısı *Number of pages of the report*	:	7
Açıklamalar *Remarks*	:	

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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.
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Mühür *Seal*	**Tarih** *Date*	**Deney Sorumlusu** *Person in charge of tests*	**Kontrol Eden** *Reviewer*	**Onaylayan** *Approved by*
	14.2.2012	Önder Volkan BALCI Tekniker	Önder Volkan BALCI Tekniker	Tacettin AKGÜN Laboratuvar Müdürü

REACTION TO FIRE TESTS FOR BUILDING PRODUCTS – BUILDING PRODUCTS EXCLUDING FLOORINGS EXPOSED TO THE THERMAL ATTACK BY A SINGLE BURNING ITEM

Calibration and Testing Center of TSE Head of Electrotechnical and Mechanical Laboratories Group Directorate of Ex Laboratory	Address/ Addresses : 8780\1 Sok. No:5 Tariş Pamuk Depoları Arkası Çiğli / İZMİR

Decisions to be Taken in Consequence of Inspections and Tests :

If Related Rule/Test not necessary to be applied to the Specimen (**U**napplied to **S**pecimen)	: **US**
If the Tested Specimen Conforms to the Rules (**P**assed)	: **P**
If the Tested Specimen does not conform to the Rules (**F**ailed)	: **F**
If there is a Rule/Test that could not be Applied due to Any Reason (**U**ndone)	: **U**

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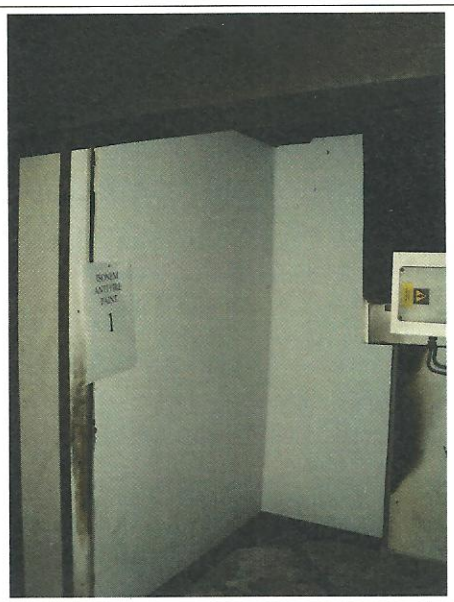
COMPANY STATEMENTS: **ISONEM YAPI KİMYASALLARI VE BOYA SAN. VE TİC. LTD. ŞTİ.**

ISONEM ANTI-FIRE PAINT

POLYMER-BASED PAINT (Fire Retardant Interior Wall Paint)



1. DEFINITION OF THE TEST METHOD

Tests were carried out, without any deviations from the standard, in accordance with TS EN 13823 March 2010 - Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item standard.

Standard is defined for classification building products' reaction to fire, different peformance classes; excluding floorings, and separately for floorings.

2. DEFINITION OF SPECIMEN

Arrival date of the specimen: 11.01.2012

Definition of the specimen : **POLYMER-BASED PAINT (Fire Retardant Interior Wall Paint)**

Name of the company that produced the specimen: **ISONEM YAPI KİMYASALLARI VE BOYA SAN. VE TİC. LTD. ŞTİ.**

Production date of the specimen: -

Name of the company that requested testing: **ISONEM YAPI KİMYASALLARI VE BOYA SAN. VE TİC. LTD. ŞTİ.**

Trademark of the specimen: **ISONEM**

Company Declarations :

Specimen:	**Nominal Values (*)**	**Measured Values (**)**
Thickness (mm)		2 mm
Unit area mass (g/m²)		4 lt/ m² (applied amount of test)
Density (kg/m³)		

(*) Values declared by the company

(**) Values verified by the laboratory

Assembling and fixing the specimen :

TS EN 13823/March 2010 Clause 5.3 Placement of the sample arms to trolley. 80 mm gap is left between support panels and short and long panels.

(TS EN 13823 Clause 5.2.2 Free-standing plates when end use application)

Conditioning:

Beginning of conditioning : 11.01.2012

End of conditioning : 03.02.2012 (TS EN 13238 Clause 4.3. c.)

3. RESULTS OF CALIBRATION

Latest calibration date :
01.02.2012 STEP CALIBRATION
01.02.2012 HEPTANE CALIBRATION
01.02.2012 NOİSE AND DRİFT CALIBRATION
02.02.2012 VELOCİTY PROFİLE MEASURING
Calibration validity date : 01.03.2012

4. RESULTS AND OBSERVATIONS

Date of test : 03.02.2012

Ambient pressure : 105000 Pa

Ambient relative humidity : 50 %

Ambient temperature : 23 °C

a) Measured Values

Numbers of test specimen:	M1	M2	M3
FIGRA value (W/s)	32,68	0	19,05
THR600s (MJ)	1,6	0,4	0,8
SMOGRA value (m^2/s^2)	21,04	5,03	5,69
TSP600s (m^2)	82,8	36,2	36,6

b) Observations

Numbers of test specimen:	M1	M2	M3
Spread of lateral flame in long arm	Did not occur	Did not occur	Did not occur
Fiery bits or driblets f<10s f>10s	Did not occur	Did not occur	Did not occur
State of inflaming of the surface	Occur	Occur	Occur
Flow of smoke emitted by the specimen, coming out of the carriage car into the test room	Did not occur	Did not occur	Did not occur
Bits falling down from the specimen	Did not occur	Did not occur	Did not occur
Formation of gap in the corner (due to failure in fixing support panels)	Did not occur	Did not occur	Did not occur
Early ending of the test	Did not occur	Did not occur	Did not occur
Corruption of the specimen or formation of breakdown	Did not occur	Did not occur	Did not occur

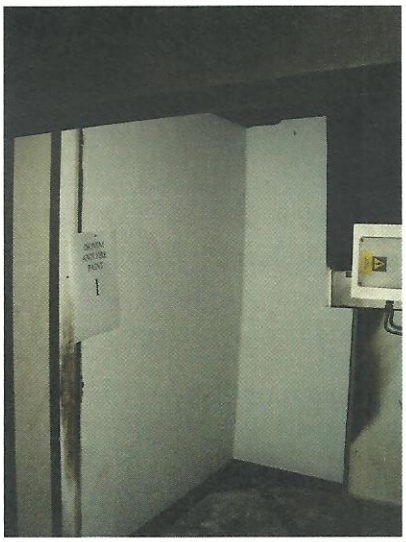
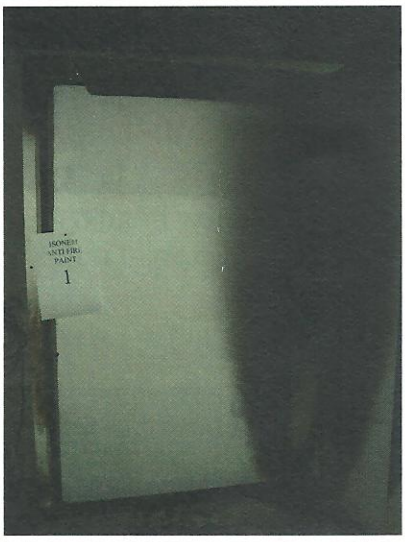
C) Summary of test results:

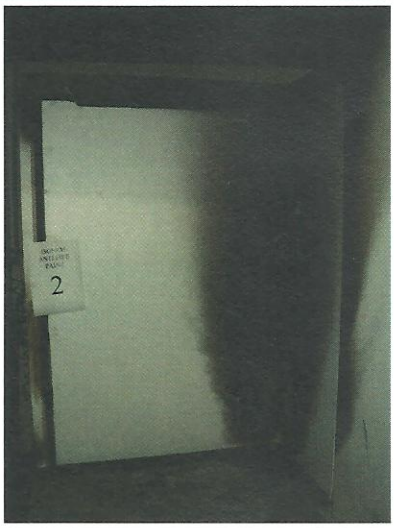
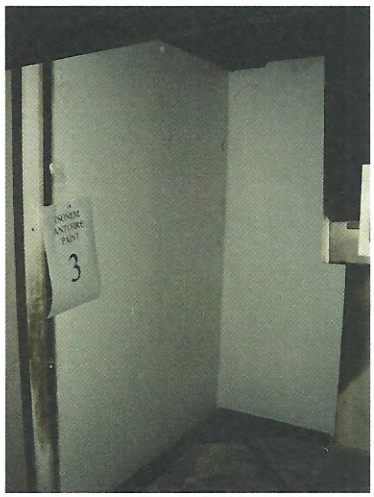
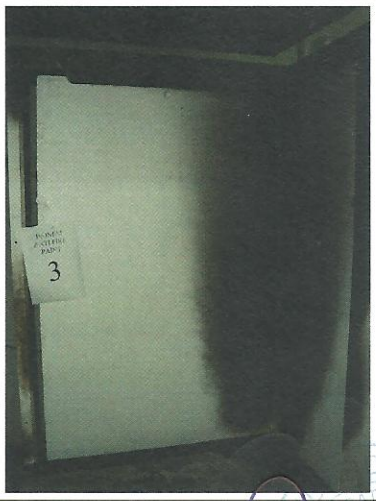
This test result relates to the behavior of the test sample is applied under special conditions. This test result is not the only relevant criterion for the product's evaluation of a potential fire hazard. These test results are valid for the tested specimen.

Average FIGRA value (W/s)	17,24
Average THR600s (MJ)	0,93
Average SMOGRA value (m^2/s^2)	10,58
Average TSP600s (m^2)	51,86
LFS<up to the edge (mm)	Did not occur
Burning driblets/bits ≤ 10 s	Did not occur
Burning driblets/bits > 10 s	Did not occur

MUAYENE - DENEY SONUÇLARI *TEST RESULTS*

Pictures of the test specimen -

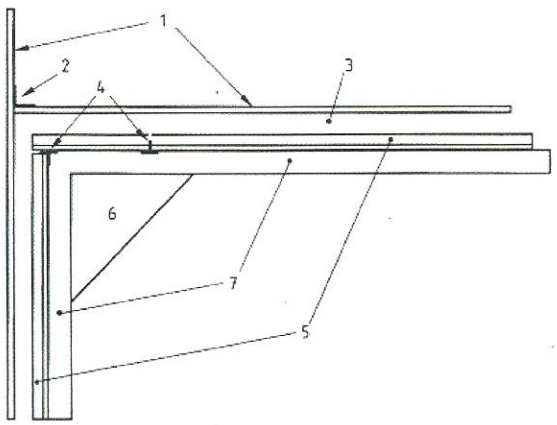
Assembling properties

TS EN 13823/March 2010 Clause 5.3 Placement of the sample arms to trolley 1500x500 mm armlet : 1:1 Isonem anti-fire paint which diluted with water painted with roller on coating applied calcium silicate plate 12 mm thick 650 kg/m³ density. (1. fold 2 lt/ m² after 4 hours 2.fold 2 lt/ m²)

1500x1000 mm long arm : 1:1 Isonem anti-fire paint which diluted with water painted with roller two fold on coating applied calcium silicate plate 12 mm thick 650 kg/m³ density. (1. fold 2 lt/ m² after 4 hours 2.fold 2 lt/ m²)

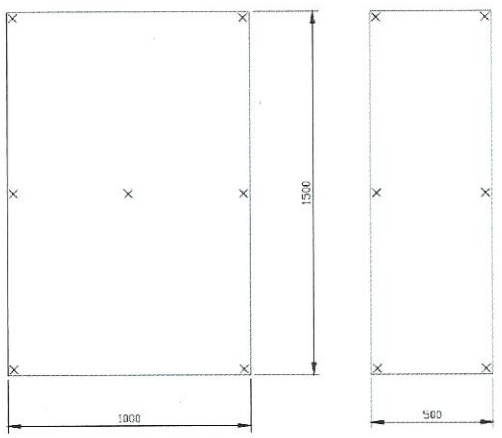
80 mm gap is left between support panels and short and long panels.

(TS EN 13823 Clause 5.2.2 Free-standing plates when end use application)



Açıklama:
1 Destek levhası
2 L-Profili
3 Hava aralığı
4 Eklemler
5 Numune kolları
6 Bek
7 U-profili

(*)Unscaled drawing.



LONG WING SHORT WING

CONCLUSION

This test result relates to the behavior of the test sample is applied under special conditions. This test result is not the only relevant criterion for the product's evaluation of a potential fire hazard. These test results are valid for the tested specimen.

ISONEM YAPI KİMYASALLARI VE BOYA SAN. VE TİC. LTD. ŞTİ. company that has produced **ISONEM** Trademark **POLYMER-BASED PAINT (Fire Retardant Interior Wall Paint, White)** samples tested according to TS EN 13823:March 2010 Turkish Standard.

This test report and test results given at TS EN ISO 11925-2 topical 02.2012 date / 139921 numbered test report **COMPLY** *with TS EN 13501-1/January 2010 Table-1* **B S1 d0 class** criteria.

SPECIAL PAINTS

ISONEM® ANTI-FIRE PAINT

P. Code: 045

Fire Retardant Paint

Fire retardant is a non- flammable, fire proof paint. It dries and forms a monolith layer on the surface of application. It has an excellent fire retarding feature and it is decorative. It functions as fire retardant when in direct contact with flame. It is fire resistant. It is water- based and does not consist any solvents. It is flexible and not affected by motion. It can be easily applied on dry or semi-humid surfaces. It is water resistant but steam permeable. This feature allows respiration of the application surface. Special dirt-resistant formula allows maintaining its initial features for many years. It prevents carbon dioxide gases generated in the structure and slows down carbonization generation, protecting steel structures, preventing corrosions. It comes in white color and it can be colored by preference. It is suitable for use on concrete, wooden, prefabricated and steel structures.

TECHNICAL FEATURES: •**Color:** White or any color of preference •**Application temperature:** Over + 5°C •**Water absorption feature:** 12% •**Steam permeability:** 2 o 20 g/m^2 •**Tensile strength:** 2 N/mm at + 23°C •**Breaking elongation:** 50% at + 23°C •**Fire retardant feature:** It **CONFORMS** to **TS 13501-1/JANUARY 2010** Schedule **1 B S1 d0** requirements in accordance with the examination and experiments performed based on **TS EN 13823:March 2010** standard, examination and experiment report results referenced **TS ISO 11925-2,** dated **02.2012** / No. **139921**.

ACCORDING TO THE RESULT OF EX LAB EXAMINATION EXPERIMENT BY DIRECTORATE OF TSE EXPERIMENT and CALIBRATION CENTER; Reaction of the experiment sample to fire in **EN 13501-1 B (in accordance with the European classification)** test method: **PASSED**

Test of experiment samples pursuant to **TS EN ISO 11925-2** test method; •Inflammation of samples: **DID NOT OCCUR**

Flames **DID NOT REACH** 150 mm testing line during the experiment period

•Dripping of samples: **DID NOT OCCUR** •Filter paper: **DID NOT BURN** •Experiment sample just: **MELTED** •Lateral fire spread on the longitude: **DID NOT OCCUR** •Fire particles or drops f<10s and f>10s: **DID NOT OCCUR** •Smoke spread from the sample into the room: **DID NOT OCCUR** •Early termination of the experiment: **DID NOT OCCUR** •Sample deterioration or denture: **DID NOT OCCUR**

SUMMARY OF THE TSE TEST RESULT: •Average FIGRA value (W/s): **17,24** •Average THR600s (MJ): **0,93** •Average SMORA value (m^2/s^2): **10,58** •Average TSP600s (m^2): **51,86** •Up to LFS line (mm): **DID NOT OCCUR** •Burning drops/particles <_10s: **DID NOT OCCUR** •Burning drops/particles >10s: **DID NOT OCCUR**

RESULT: During the examinations and tests performed on **ISONEM ANTI FIRE PAINT** "inflammable paint" sample pursuant to **TS EN 13823:MARCH 2010** standard, result of the examination and experiment reference **TS EN ISO 11925-2,** dated **02.2012/No. 139921 CONFORMS** to **TS EN 13501-1/JANUARY 2010** Schedule **1 B S1 d0** classification criteria.

METHOD OF USE:

SURFACE PREPARATION: Surfaces shall be clean, free of substances such as oil, dirt, mud before the application, and the extracted particles must be removed. Surface can be dry or lightly damp. The packing must be opened and stirred homogenously before application.

AREAS OF USE: •All types of plastered, painted and unpainted internal and external surfaces. •On Concrete, Wooden and Steel structures. •On the roofs and fire-escape stairs •All locations where inflammability is required •At schools, day care, hospitals theatres and cinema halls. •On plaster board wall partitions and ceilings •On chimneys •At thermal plants and industrial structures, factories •At military facilities

APPLICATION METHOD: It can be applied using brush, roll or a suitable paint gun. Before the application, apply a primer coat diluted with 50% water. Allow to dry for 4 hours. Non-diluted paint should be applied in 2 layers at 4 hours intervals after the primer layer to finish the painting process.

PACKING: 18 kg PE bucket

STORAGE: Unopened packages shall be good for minimum 12 months if stored at ambient temperature between+10 and +30 °C.

CONSUMPTION: 1 lt. paint will be sufficient for 2-3 m^2 areas in two layers based on the surface, material thickness and required fire retarding resistance.

SAFETY: Keep away from children. Store in cool places. In case of contact with eyes, wash with plenty of water and consult a physician. If swallowed, immediately consult with a physician.

COLOR: White or it can be made in any color.