

CLASSIFICATION OF REACTION TO FIRE FIRES-CR-120-12-AUPE

Fire protection mastic PYROGUMA



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CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1 + A1: 2009 with direct field of application

FIRES-CR-120-12-AUPE

Name of the product: Fire protection mastic PYROGUMA

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1. INTRODUCTION

This classification report defines the reaction to fire classification assigned to element: Fire protection mastic PYROGUMA in accordance with the procedures given in EN 13501-1 + A1: 2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The element, Fire protection mastic PYROGUMA, is defined as a bonding material for joints and edges of materials and products made of wood and wood based materials.

2.2 PRODUCT DESCRIPTION

Fire protection mastic PYROGUMA is a grey highly viscous material, without mechanical impurities on the basis of water-soluble dispersion, retardants, blowing agents and refractory fillers.

Bulk density raw material: $(1,38 \pm 0,005) \text{ g.cm}^{-3}$;

Mastic PYROGUMA is applied to the joints in an amount approximately 100 ml per one meter of joint length and in amount minimally 500 gm^{-2} . Consumption is expressed in the weight of raw material. The mastic may be diluted with water.

3. TEST REPORTS IN SUPPORT OF CLASSIFICATION

3.1 TEST REPORTS

| No. | Name of laboratory | Name of sponsor | Test report No. | Date of the test | Test method |
|-----|------------------------------|----------------------------------|----------------------|------------------|-------------------------------|
| [1] | FIRES, s.r.o., Batizovce, SK | Pyrochem, s.r.o., Bratislava, SK | FIRES-FR-070-12-AUNS | 29. 06. 2012 | EN ISO 11925-2: 2010/AC: 2011 |
| [2] | FIRES, s.r.o., Batizovce, SK | Pyrochem, s.r.o., Bratislava, SK | FIRES-FR-074-12-AUNS | 25. 06. 2012 | EN 13823: 2010 |

[1] - [2] Test specimens were conditioned according to EN 13238 before tests of reaction to fire

3.2 TEST RESULTS

| Test report number and test method | Characteristic value | Number of tests | Results | |
|--|------------------------------------|-----------------|---------------------------------|----------------------------|
| | | | Continuous parameter - mean (m) | Compliance with parameters |
| [1] EN ISO 11925-2 surface* exposed to flame (exposure time 30 s) | $F_s \leq 150 \text{ mm}$ | 6 | (-) | compliant |
| flaming droplets/particles | ignition of the paper | | (-) | non-compliant |
| [3] STN EN 13823 | FIGRA _{0,2MJ} | 3 | 42,1 | (-) |
| | FIGRA _{0,4MJ} | | 1,2 | (-) |
| | LFS< edge of specimen | | (-) | compliant |
| | THR _{600s} | | 0,8 | (-) |
| | SMOGRA (m^2/s^2) | | 14,6 | (-) |
| | TSP600s (m^2) | | 71,8 | (-) |
| | flaming droplets/particles | | (-) | non-compliant |

* Specimens main surface were exposed to flame.



4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11.6 of EN 13501-1 + A1: 2009.

4.2 CLASSIFICATION

The product, Fire protection mastic PYROGUMA, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s2

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings is:

| Fire behaviour | | Smoke production | | | Flaming droplets | |
|----------------|---|------------------|---|---|------------------|---|
| B | - | s | 2 | , | d | 0 |

Reaction to fire classification: B – s2, d0

4.3 FIELD OF APPLICATION

This classification is valid for the following end use applications:

- i) mastic applied materials and products made of wood and wood based materials;

This classification is also valid for the following product parameters:

| | |
|--|---|
| Colour | No change of colour is allowed |
| The quantity of coating [g.m ⁻²] | Minimal of quantity of mastic is 100 ml per one meter of joint length or minimally 500 gm ⁻² |
| Substrate | Product can be applied to products and materials made of wood and wood-based materials |
| Composition of product | No change in composition of product is allowed |

5. LIMITATIONS

This classification document does not represent type approval or certification of the product.

The classification is valid provided that the product, field of application and standards and regulations are not changed.

Approved:

Ing. Štefan Rástocký
leader of the testing laboratory



Signed:

Ing. Samuel Skokan
technician of the testing laboratory