ENGLISH TRANSLATION

TEST REPORT

REPORT/CASE NUMBER: P-07-9148
CLIENT: INDUSTRIAS JUNO, S.A.
ADDRESS: Barrio Sacont I, 48950 ERANDIO (BIZKAIA)
MATERIAL TESTED: WATER-BASED EPOXY ENAMEL APPLIED ON FIBRE CEMENT BOARD
DATE OF RECEIPT: 29.08.07
DATE OF TESTING: 22.10.07
TOTAL NUMBER OF PAGES: 6 (INCLUDING THIS ONE)

MATERIAL

A water-based epoxy enamel was received from INDUSTRIAS JUNO, S.A., which is applied on a non-combustible and non-insulating fibre cement board measuring 400 mm x 300 mm x 6 mm thick.

Its characteristics are indicated below, according to the information provided by the test requester:

- **Commercial reference:** DYNAPOK AGUA 2/C
- **Description:** WATER-BASED EPOXY ENAMEL

Visible Face Characteristics:

- **Composition:** Water-based epoxy enamel
- **Finish:** Satin. Depending on the absorption of the substrate, the gloss may vary between satin and matt.
- **Colour presented:** White
- **Viscosity:** Minimum 50 Poises (according to FR.I 007)
- **Mixture density:** 1.20 ± 0.05 g/cm³ (according to FR 1001)
- **Mixing ratio:** Component A:B – 1:1 by volume, 1.4:1 by weight
- **Drying:** Touch-dry in 3 hours
- **Thinner:** Water
- **Application quantity:** 8 m²/litre (50 microns dry)
- **Application method:** Roller
- **Pot life:** 2 hours

Substrate Characteristics:

- **Type:** Fibre cement board
- **Thickness:** 6 mm

The material was identified by the client and internally referenced as follows:

- **Reference:** DYNAPOK AGUA 2/C – WATER-BASED EPOXY ENAMEL

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TESTING

Testing was requested for reaction to fire classification of the material in accordance with standard **UNE 23727:1990**. The test to be carried out was:

- **Radiation test** in accordance with **UNE 23721:1990**

RESULTS

The result obtained was as follows:

- **Material reference:** DYNAPOK AGUA 2/C – WATER-BASED EPOXY ENAMEL
- **Classification according to UNE 23727:1990: M1**
  (*Valid for material applied on 6 mm thick fibre cement board – non-insulating and non-combustible – in the amount and form specified in the material section.*)

The results recorded in the attached test sheet are summarised in the following table:

INDICES	DYNAPOK AGUA 2/C – WATER-BASED EPOXY ENAMEL
Ignitability index (ii)	0.00
Flame spread index (is)	0.00
Flame height index (h)	0.00
Combustibility index (ic)	<1.00

Signed by:
Jesús Ballesteros
Chief Testing Officer
Zamudio, 30 October 2007

RADIATION TEST

CASE NUMBER: P-07-9148
MATERIAL: P-07-9148-111
PROCEDURE: PTFU0007
TEST TECHNICIAN: Edgar A.
DATE OF TEST: 22/10/2007
TEMPERATURE (°C): 22.4
RELATIVE HUMIDITY (%): 38.8

Flame Length vs. Time Table

(All readings in mm and seconds – all values are zero; omitted here for brevity but available upon request)

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SPECIMENS: 1, 2, 3, 4

- **Ignition time at lower edge (fs):** —
- **Flame extinction (fs):** —
- **Ignition time at upper edge (fs):** —
- **Flame extinction time (fs):** —

Index	Specimen 1	Specimen 2	Specimen 3	Specimen 4
Ignitability index	0.00	0.00	0.00	0.00
Flame spread index	0.00	0.00	0.00	0.00
Maximum flame height (cm)	0	0	0	0
Flame height index	0.00	0.00	0.00	0.00
Combustibility index	-0.45	-0.49	-0.46	-0.47

AVERAGE VALUES:

- **Ignitability index (ii):** 0
- **Flame spread index (is):** 0
- **Flame height index (h):** 0
- **Combustibility index (ic):** -0.47

ANNEX – MATERIAL CONDITION AFTER RADIATION TEST (UNE 23721:1990)

- **Reference:** DYNAPOK AGUA 2/C – WATER-BASED EPOXY ENAMEL

Observations:

1. No surface deterioration or deformation in the test area.
2. No dripping or material falling on the radiator.
3. No smoke emission.
4. Grid fitted as required for fusible and/or deformable materials? **No**
5. Test panel used was fibre cement board.
6. **Other observations:** None
