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# TEST REPORT

CLIENT: **VIPEQ HISPANIA**

APPLICANT: **RAMON MILLAN AND JOSE LUIS VIANA**

ADDRESS: **POL. MOREA NORTE, C/D Nº 14**
**31191 BERIAIN (NAVARRA)**

MATERIAL TESTED: **SAMPLE CONSISTING OF POLYMERS, CORK AND ADDITIVES IN AN AQUEOUS SYSTEM**
**REF.: "VIPEQ INSULATION"**

PURPOSE OF THE REQUEST: **TEST FOR EXTERNAL FIRE EXPOSURE TO ROOFS. TEST 1: METHOD WITH BURNING TORCHES IN ACCORDANCE WITH UNE-ENV 1187:2003**

| | |
|---|---|
| DATE OF RECEIPT: | **10.12.2008** |
| DATE OF TEST COMMENCEMENT: | **10.12.2008** |
| DATE OF TEST COMPLETION: | **12.01.2009** |
| DATE OF ISSUE OF REPORT: | **04.11.2010** |

The results compiled in this report refer only to the material received and submitted to testing at this Research Centre on the dates indicated.

This report consists of ten (10) pages and amends and annuls report 19997. The amendment of the report is due to the updating of the technical data sheet and of the applicant due to the change in the company's name, and may not be reproduced without the express authorisation of CIDEMCO, unless when done so in full.

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**Fire Safety and Protection**
**Architecture and construction technology**

**Izaskun Martínez**
**Fire Safety and Protection Manager**
**Architecture and construction technology**

## SAMPLE CHARACTERISTICS

On 10 December 2008, at the request of the company VIPEQ HISPANIA, CIDEMCO received 4 samples of polymers, cork and additives in an aqueous system, applied to calcium silicate plates measuring (1800 x 800 x 10) mm as specified in standard UNE-EN 1187:03 and referred to as:

**"VIPEQ INSULATION"**

The technical data sheet for the product tested, provided by the client, is attached in the appendix.

## TEST REQUESTED

The test requested is the ***Test methods for external fire exposure to roofs. Test 1: Method with burning torches*** in accordance with standard UNE-ENV 1187:2003.

## CONDITIONING

At the time of testing, the sample was in balance with the laboratory environment, in which the temperature was maintained at (20±10)ºC as specified in section 4.6 of standard UNE-ENV 1187:2003.

An amount of wood wool selected for the tests was stored for at least 12 h at a temperature of (23±2)ºC and relative humidity of (50±5)% in a conditioning chamber.

The samples were stored for at least 48 h at a temperature of (23±2)ºC and a relative humidity of (50±5)% in a conditioning chamber until a constant weight was achieved.

# TEST PERFORMED

## TEST FOR EXTERNAL FIRE EXPOSURE TO ROOFS

The test performed was test 1: ***method with burning torches in accordance with section 4 of standard UNE-ENV 1187:2003***.

Each supporting plate consisted of one piece measuring 800 mm x 1800 mm x 10 mm. They were placed on a steel support and a wire basket was placed on top of the sample with 600g of wood wool (source of ignition) and set on fire.

30 minutes after the commencement of the test the flames existing on the surface must be extinguished.

At the end of the test, it is dismantled and a check is carried out to ensure that there has been no spread of fire (internal combustion) or fire penetration.

The roofs are designed to be installed with a gradient of up to 20º, and the roofs were therefore tested with a gradient of 15º.

# TEST RESULTS

| Sample no. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| **Time in which the test was completed (minutes/seconds)** | — | — | — | — |
| **Temperature of the laboratory on commencement of the test (ºC)** | 10.05 | 10.00 | 10.05 | 10.10 |

## External fire spread

| **UPWARDS** | **EXTERNAL FIRE SPREAD** (min/sec) | | | |
|---|---|---|---|---|
| 100 mm | — | — | — | — |
| 300 mm | — | — | — | — |
| 500 mm | — | — | — | — |
| 700 mm | — | — | — | — |
| Edge | — | — | — | — |
| **DOWNWARDS** | **EXTERNAL FIRE SPREAD (min/sec)** | | | |
| 100 mm | — | — | — | — |
| 300 mm | — | — | — | — |
| 500 mm | — | — | — | — |
| Edge | — | — | — | — |

| **Length burned** | (mm) | | | |
|---|---|---|---|---|
| Upwards | — | — | — | — |
| Downwards | — | — | — | — |
| Right side | No | No | No | No |
| Left side | No | No | No | No |
| **Area damaged** ($cm^2$) | — | — | — | — |
| **Production of materials/droplets from the surface** (>5s) | No | No | No | No |

## FIRE PENETRATION

| | Specimen 1 | Specimen 2 | Specimen 3 | Specimen 4 |
|---|---|---|---|---|
| Time in which it penetrates (min, sec) | — | — | — | — |
| Production of droplets / material on the lower surface(>5s) | No | No | No | No |

Observations: there was no fire penetration.

**Openings formed**: holes (>25 $mm^2$) or cracks (> 2mm): **None were formed**

**Description of the fire penetration:**(burned, melted substance): **None were formed**

## Damage

| | Specimen 1 | Specimen 2 | Specimen 3 | Specimen 4 |
|---|---|---|---|---|
| **Spread without flame** (fusion with fast combustion) | — | — | — | — |
| **Extent of internal damage** (mm) | | | | |
| Upwards | — | — | — | — |
| Downwards | — | — | — | — |
| **Maximum length of burned material**(mm) | | | | |
| Upwards | — | — | — | — |
| Downwards | — | — | — | — |
| **Area damaged** ($cm^2$) | — | — | — | — |

## DIRECT FIELD OF APPLICATION OF THE RESULTS

In accordance with section 4.10 of standard UNE-ENV 1187:2003, the extension of the field of application will be influenced by two factors, the gradient at which the sample is tested and the nature of the support.

**a) Gradient:** the results obtained at 15º may be applied to roofs with gradients < 20º.

**b) Nature of the support:** the support used was calcium silicate, and therefore the results obtained with this support apply to any non-combustible continuous roof with a minimum thickness of 10mm.

## OBSERVATIONS

The sample became discoloured and in the area of the basket the coating softened but did not disappear.

The plate was not reached.

# APPENDICES

# APPENDIX 1: TECHNICAL DATA SHEET OF THE PRODUCT TESTED

VIPEQ HISPANIA
CORCHO NATURAL
en emulsión proyectado

Polígono Morea Norte, C/ D Nº 14
Tfno. y Fax: 948 31 24 13
31191 - BERIAIN (Navarra)

Revisión: 1

## FICHA TÉCNICA

## VIPEQ

**DESCRIPCIÓN**

PRODUCTO AISLANTE TERMICO-ACUSTICO CON FUNCIÓN DECORATIVA

**CARACTERÍSTICAS**

VIPEQ-F08 es una mezcla de partículas de corcho seleccionadas, con diferentes tipos de resinas en base agua, cargas minerales, estabilizantes y aditivos varios.

**ESPECIFICACIONES**

| | |
|---|---|
| Aspecto | Producto pastoso |
| Color | Natural<br>Blanco<br>Carta de colores |
| Densidad | 0,5-0,7 g/cm$^3$ |

**APLICACIONES**

VIPEQ-F08 tiene buena adherencia sobre la mayoría de materiales (mortero, metal,madera,P.V.C.,polietileno expandido,etc.) y es idóneo para:

-Revestimiento de fachadas (decorándolas y aislándolas térmicamente).

-Impermeabilización de cubiertas de todo tipo (tela asfáltica, chapa, uralita), aportando en la misma aplicación un aislamiento térmico.

-Decoración de interiores y corrección acústica de locales.

Y un largo etcétera que convierten a VIPEQ-F08 en un material único.

**MODO DE EMPLEO**

La forma de aplicación puede ser manual, con herramienta convencional (llana,espátula);o mecánica , mediante proyección con máquina.

Secado al tacto..... .....30 minutos (Temperatura ambiente 20ºC)
Secado total.....12-24 horas (Capa de 3-8 mm)
Rendimiento.....1,2-1,5 kg/m$^2$ (variable en espesor)
Temperatura de aplicación.....-2ºC y +45ºC

**RECOMENDACIONES**

El soporte debe estar limpio, exento de polvo y seco.

**ALMACENAMIENTO**

El producto no debe ser expuesto a la acción directa del sol ni a temperaturas superiores a 45 ºC ni menores de -2ºC.

**PRESENTACIÓN**

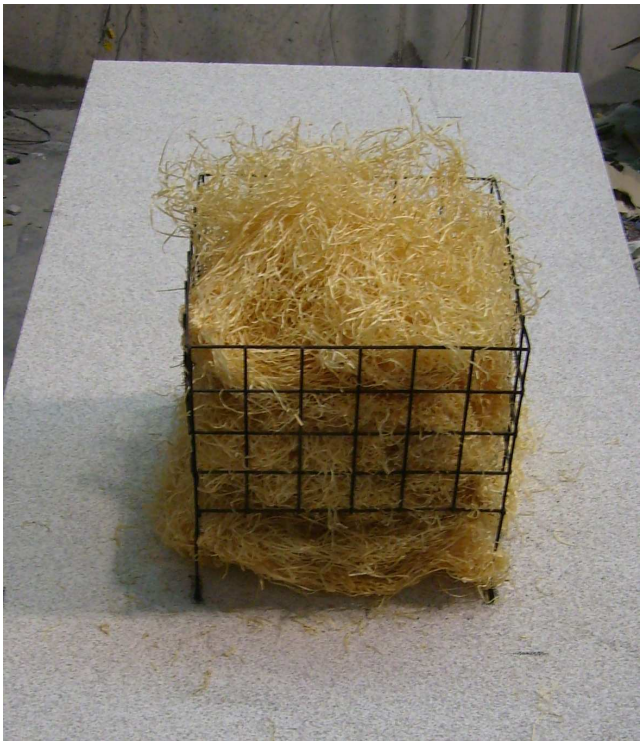
Envases de 12 kg.

**FRASES R/S Y SÍMBOLOS DE RIESGO**

S2 Manténgase alejado de los niños.
S7 Mantener el envase bien cerrado.

La información y recomendaciones indicados en esta hoja técnica corresponden a nuestros conocimientos actuales, pruebas de laboratorio y experiencias habituales. Por tal motivo, nuestra garantía se limita a la calidad del producto suministrado. Esta empresa no asumirá responsabilidades derivadas del mal uso de nuestros productos.

# APPENDIX 2: PHOTOGRAPHS OF THE SAMPLE TESTED



**Appearance of the sample before the External Fire test**
**Test 1: method with burning torches in accordance with ENV 1187:2003**

**Appearance of the sample during the External Fire test**
**Test 1: method with burning torches in accordance with ENV 1187:2003**

**Appearance of the sample after the External Fire test.**
**Test 1: method with burning torches in accordance with ENV 1187:2003**