

Upgrading wood surfaces within building structures to a fire rate specification is now a common requirement throughout United States of America and Europe. Envirograf fire protection coatings have been developed to meet even the strictest requirements of UL Classification ANSI/UL723 Tenth Edition, (ASTM E84-13A).

ANSI/UL723 CERTIFIED

Envirograf® is now proud to announce the attainment of Class A Flame Spread Classification to UL723 Standard (Test for Surface Burning Characteristics of Building Materials) with Flame Spread 25 and Smoke Development 300.



THE ONLY COATING SYSTEM FOR INTERNAL AND EXTERNAL UNTREATED WOOD OFFERING UP TO 66 MINUTES PROTECTION



DESCRIPTION

Envirograf® Product 42 is a range of clear and white intumescent coatings, giving protection to a range of wood and wood-derived materials with anti fungus. A UV protection product also available.

USE

These coatings can be used on insulation board, MDF board, plasterboard, wood, and some wood-derived products. There is no need to strip off the existing paint or varnish, as Envirograf® adhesion primer can be used. See data sheet for full details.

PERFORMANCE

All types of new and old doors (some over 200 years old) have been tested in accordance with BS476 Part 22 (1987), and their fire resistance was upgraded to an integrity of over 60 minutes. The HW range can also upgrade wood panelling to 30 minutes or 60 minutes fire rating, according

to the type of wood and its thickness. Open joists and floorboards have achieved 60 minutes of fire protection on a loaded floor to BS476 Part 20 (1987). Timber mouldings and carcasses have achieved 90 minutes of fire rating to BS476 Part 20 (1987). A range of timber types, including MDF, plywood, etc, have been tested and complied with BS476 Parts 6 and 7 (1987) Classes 0 and 1. Also tested to EN1364-1 (1999) for 66 minutes. This coating system now complies with the Classification B/S1/d0 of European Standard EN13501 Parts EN13823 (2002) single burn test (SBI) and EN11925-2 (2002) ignitability. Timber doors tested to BS476 Part 22 (1987), EN13641-1:2014, EN13501-2:2016, EN1634-1:2000 giving 30 & 60 minutes fire protection and insulation. Loadbearing floor - EN1365-2:2014 57 min. integrity, insulation and loadbearing



Timber ceiling at Clifton Hill House, University of Bristol

The Envirograf® team had the pleasure of working on University of Bristol's Clifton House, a Victorian mansion originally built in 1896 for the Tyndall family.

The aim of the architects working on the project was to ensure the building remained in its original style, which was the challenge we gladly took on.

Through the use of our products 38, 42, AM mastics as well as HW systems, we were able to give 60 minute fire integrity to the building, without sacrificing its original image.

To keep the appearances and to be able to use upper floors at University of Bristol, the open joists and floor boards were again coated with 3 coats of HW02/E at 8m² per litre per coat and brown AM mastic between joints which had shrunk over the years, giving 60 minutes integrity, insulation and load bearing.

There have been hundreds of these type of floor structures treated to give the 60/60/60 requirement to BS 476 Part 21 1987.

ORDERING REFERENCES:

PATENTED

Please refer to our new data sheet before specifying coatings.

HWAP/WB Clear adhesion primer supplied in 1 litre, 2½ litres, or 5 litres

HW01F White intumescent coating supplied in 1 litre, 2½ litres, 5 litres or 20 litres (Top coat can be acrylic, white spirit or water based top coats)

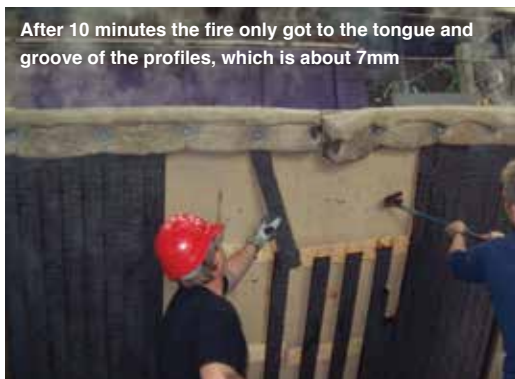
HW/ACRYLIC Acrylic Emulsion Coating (matt and satin finish, use over HW01F)

HW02E Clear intumescent coating supplied in 1 litre, 2½ litres, or 5 litres (Top coats can be water based, white spirit based or thinners based laquers.)

A range of top coats is available.

Please read coating brochure for more information.

After 10 minutes the fire only got to the tongue and groove of the profiles, which is about 7mm



Envirograf® HW intumescent paint achieves Scandinavian test requirements

EN 14135 TEST

Outstanding performance by HW02

The Envirograf® HW02E intumescent paint system was recently used in one of the most rigorous fire tests designed for testing coating systems, known as the K₂10 test. The HW system was applied onto 15mm tongue and grooved pine-wood profiles, a typical surface cladding (or wooden lining) used in the Scandinavian house sector.

The test is designed to evaluate the coverings ability to protect the construction behind the covering. According to regulations a K₂10 rating is required, ensuring that wooden linings of this type resist the fire for a full 10 minutes ensuring that more flammable material behind the covering does not ignite for that set time, in this way reducing the intensity of the fire for the first critical 10 minutes, allowing the occupants effective escape to safety.

The HW system successfully passed the EN 14135 test at the Danish Institute of Fire and Security Technology (DBI) in Copenhagen, and is now being specified throughout the Scandinavian housing sector market.

