



## APPLICATION GUIDE

### pyroplast-HW100

#### DESCRIPTION

pyroplast-HW100 is a clear waterborne intumescent coating for the fire protection of internal timber surfaces. pyroplast-HW100 will upgrade timber surfaces to meet the requirements of Class B (fire behaviour), Class s1 (smoke production) and Class d0 (burning droplets) all in accordance with BS EN 13501-1:2002. In achieving this classification pyroplast-HW100 meets the Building Regulations Approved Document B provisions satisfied by Class 1 & Class 0 (BS476: Part 6&7).

The pyroplast-HW100 system comprises:-

Intumescent: pyroplast-HW100 clear  
Top sealer: pyroplast-HW211 top

pyroplast-HW211 top is used to protect pyroplast-HW100 clear against abrasion and high humidity. It is an essential part of the fire protection system.

#### SPECIFICATION

Pyroplast-HW100 clear

Pack size: 5kg and 25kg  
Colour: Clear  
Application method: Brush, roller or spray.  
Drying time: 8-12 hours between coats.  
Min. 48 hours before HW211 top.  
Density: 1.32g/cm<sup>3</sup>  
Flash point: Not flammable.

Pyroplast-HW211 top

Pack size: 2.5kg and 10kg  
Colour: Clear Matt or Satin  
Application method: Brush, roller or spray.  
Drying time: Approx. 2 hours to touch dry.  
Approx. 24 hours to fully dry.  
Density: 0.83/cm<sup>3</sup>  
Flash point: >55°C

#### SITE CONDITIONS

pyroplast-HW100 is suitable for internal, weather tight environments only. The product must only be applied in temperatures above 10°C and a maximum relative humidity of 70%. Low temperatures and/or high humidity will cause prolonged drying times and may lead to surface defects.

#### SURFACE PREPARATION

pyroplast-HW100 is suitable for application to internal timber surfaces. It is not suitable for application to artificial timber or pre-finished timber surfaces.

All timber surfaces to be treated must be free from surface moisture and any contamination such as dust, grease, wax, and resin. Oily or resinous timbers should be washed with methylated spirits and allowed to dry thoroughly.

Existing coatings must be completely removed by stripping or sanding.

pyroplast-HW100 is not suitable for application to surfaces which are likely to be subject to high levels of abrasion e.g. doors, stair treads and risers, and hand rails.

The moisture content of the timber must be no more than 15%.

pyroplast-HW100 is not suitable for high humidity or wet environments i.e. kitchens, bathrooms and swimming pools because the high levels of moisture in these environments are likely to cause a breakdown of the coating.

Off site application of pyroplast-HW100 is not recommended because of the risk of damage to the applied coating during transport to site.

#### PRESERVATIVES

pyroplast-HW100 may be applied over most commercially available preservatives provided that they are allowed to dry out thoroughly and do not seal the timber surface.



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#### STAINS

When a stained timber finish is required, only penetrating wood stains must be used. One single thin coat only must be applied to the timber and allowed to dry out thoroughly. Water based stains will normally require at least 24 hours to dry out and solvent based stains will normally require at least 72 hours. Exact time for thorough drying will depend upon the environmental conditions. The stained surface should be lightly sanded before application of the pyroplast-HW100 to ensure adequate adhesion.

#### APPLICATION RATES

pyroplast-HW100 clear

Apply onto suitably prepared timber at 300g/m<sup>2</sup> achieved in 2 coats, allowing 8-12 hours between coats. Allow a minimum of 48 hours before applying pyroplast-HW211 top.

pyroplast-HW 211 top (matt or satin)

Once the pyroplast-HW 100 clear is thoroughly dry apply the pyroplast HW top at 40g/m<sup>2</sup> achieved in one coat. Touch dry time is approximately 2 hours depending on the application conditions. Allow a minimum of 24 hours for thorough drying.

#### METHOD OF APPLICATION

pyroplast-HW100 may be applied by brush, roller or spray.

pyroplast-HW100 should be thoroughly stirred before use.

pyroplast-HW100 is supplied ready to use.

#### Airless spray application

Spray pump: Airless spray unit operating at 3000psi e.g. Graco Ultra 750.

Tip size: 18-21 thou

Hose: 3/8" hose for lengths up to 40m

For best results the spray gun should be 300mm-400mm from the timber surface.

#### CLEANING EQUIPMENT

Pyroplast-HW100 clear

Clean equipment with water

Pyroplast-HW211 top

Clean equipment with white spirit.

#### DRYING

The normal drying time between coats of pyroplast-HW100 clear is 8-12 hours depending on the application conditions.

The minimum drying time between pyroplast-HW100 clear and pyroplast-HW211 top is 48 hours.

#### OTHER COATMASTER PRODUCTS

pyroplast-ST100

for upgrading structural steel

pyroplast-C

for the fire protection of cables.

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AGHW/01/08



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