



PROMETHEUS DEVELOPMENTS LTD

For the answers you haven't thought of

Phyrolex™ Intumescent coatings



The new generation of intumescent coatings has arrived on the composite market offering outstanding fire protection to any flammable substrate.

The Phyrolex intumescent coatings offer the following features to any composite producer:

- The ability to upgrade any thermoset or thermoplastic resin substrate to comply with any fire retardancy requirements without having to use an FR grade of resin, SMC, prepreg or pultrusion.
- High quality hard glossy finish without the need for a topcoat*
- Lowest smoke production of any intumescent system.
- Suitable for marine applications**
- Halogen free
- Has been used on a wide range of projects including the grand Hibernian heritage trains in Ireland.
- Has achieved the following fire test results on non FR substrates:
 - TO EN45545 (rail) has achieved HL3 on Timber, epoxy and polyester
 - TO EN13501 (buildings) has achieved a Euroclass B on timber epoxy, polyester, polycarbonate, polypropylene and polyethylene
 - To BS476 part 6 and 7 (rail and buildings) has achieved a class 0 and class 1 on timber epoxy, polyester, polycarbonate, polypropylene and polyethylene
 - To BS6853 (rail) has achieved a Cat 1A on epoxy
 - TO ASTM E84 (buildings) has achieved Class A on timber epoxy, polyester, polycarbonate, polypropylene and polyethylene

A little more detail:

- It comes in a two pack system with a pot life of over 24 hours

* Topcoat not required for internal applications

** Marine applications do require a topcoat for external use.

- Can be applied by brush, roller or airless spray
- Coating weight can be as low as 250g/m² but ultimate loading will depend upon FR requirements and the substrate
- Drying time is 24 hours at ambient conditions but can go through a low bake.
- A range of topcoats has been identified for use in external environments.

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