

Focus on Hydrocarbon fire protection



EPOXY PASSIVE FIRE PROTECTION – WE'VE GOT IT COVERED

With over 150 years experience in the coatings industry Leighs Paints understands how critical it is that your investment gives you a quality, long term fire protection system, which performs in the demanding environments that the energy industry poses.

Leighs Paints range of epoxy passive fire protection products, the **FIRETEX®** M90 Series, is designed to provide you with a reliable system that can save you both time and money.



TESTING

All **FIRETEX®** materials are independently tested to the highest international standards, verified and certified by globally recognised organisations such as Lloyds Register, Det Norske Veritas, ABS, UL and others. Utilising our on site **FIRETEX®** Test Centre, we can also conduct ad hoc and project specific testing to suit your requirements.

Tests include:

Hydrocarbon pool fire, jet fire and blast resistance testing to various standards such as BS 476 Part 20/21-Appx D, UL1709, OTI 95634, etc.

Surface Spread of Flame - ASTM E84-08 – Class 1

The test determines the surface burning characteristics of the material, specifically the flame spread and smoke index when exposed to fire.

Fire Performance following Salt Water immersed **FIRETEX®** M90

Several I-Section steel columns were coated with **FIRETEX®** M90 Intumescent. A number of these were immersed in salt water; whilst one was left unexposed, and used as a control sample.

After various periods of immersion (one in excess of 14 years) each section was fire tested to the hydrocarbon curve and its result compared against the control sample. In all cases there was no loss of fire resistance.

International head office

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FIRETEX[®] M90 SERIES

The **FIRETEX[®]** M90 Series offers durable, epoxy fire protection products, that are solvent free, and fast curing, with fire protection for up to 3 hours on structural steel, decks and bulkheads.

When used in conjunction with Leighs Paints thermal barrier products, the **FIRETEX[®]** M90 Series can provide protection against both sub zero and elevated temperatures, extending the operational range of these products. In addition the combined system offers protection for vessels and tanks, against both fire and cryogenic spillage.

FIRETEX[®] M90 Series is also tested for jet fire situations, and can be applied by spray (dual component), or trowel and may be installed as removable castings.

| Features | Benefits |
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| Highly durable | Provides life of asset protection, reducing life cycle costs. |
| 14 years water immersion testing | Proves FIRETEX[®] M90 can perform in aggressive corrosive environments, providing a "total" fire and corrosion solution. |
| Blast resistance in excess of 4 bar | Ensures your investment will perform when needed, regardless of extreme circumstances. |
| Low dry film thicknesses (DFT) * | Lower costs through reduction of volume needed for effective protection. Reduced weight - important for many offshore projects. |
| Capable of accurately applying between 1mm and 7mm, in one coat, without sagging | Excellent aesthetic appearance. Time saved through fewer coats needed for desired dft. |
| Excellent control of application | Accuracy during application potentially lowers wastage costs. |
| Extended Overcoating Period | Maximises project flexibility. |
| Fast Curing | Reduced field installation costs, and so time saved on the critical path. |
| Zero Volatile Organic Compound | Reduced environmental impact. |
| Approvals | Fire Testing: Hydrocarbon Curve (NPD/BS.476 Part 20/21 – Appendix D), Jet fire standard, IMO Resolution A754(18) – Deck and bulkheads, UL1709 (USA), TRB 801 Appendix Nr. 25 (BAM, Germany) – Pressure Vessels. Smoke and Toxicity Testing: NES 711 smoke emission, NES 713 toxicity, ASTM E84. |

* When compared to other Passive Fire Protective systems.