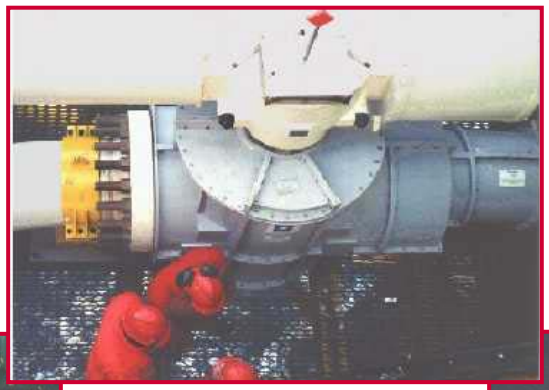
PRE-CAST FIRE PROTECTION SYSTEM

Removable Epoxy Intumescent Fire Protection System

Pre-cast Epoxy Fire Protection System



Jet Fire and Blast Tested Protection

The Solution Provider

Quick access, achieved with the minimum of operator skill & ensuring integrity upon completion, allows for routine periodic inspections of the valves, actuators, welds or wall thickness.

Cast epoxy systems have been tested in both the large scale jet fires at Spadeadem and to the new OTI 634 95 standard, is proven to resist the erosive forces and high -temperatures encountered in a Hydrocarbon Jet Fire

The cast epoxy systems are manufactured using a moulding technique base on information taken from CAD models or site survey. The pre-formed components are then simply bolted in place on the risers, valves or actuators, sealing all joints against water ingress

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Tested to Meet the Latest Fire and Blast Standards

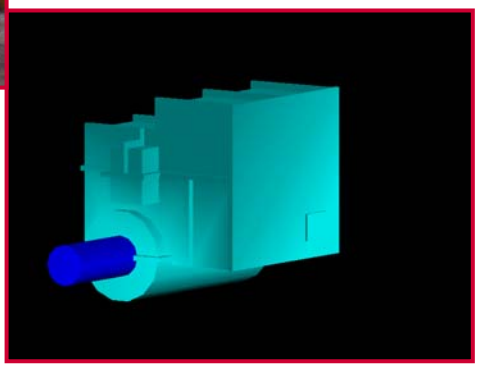
Blast over pressure testing was carried out at the Building Research Establishment's fire and blast testing facility housed within the massive airship hangers at Cardington, England.

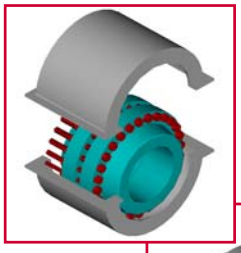
A series of explosions, witnessed by Lloyds, were carried out on a single set of test specimens mounted with the test rig openings.

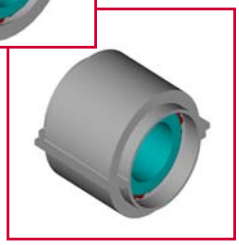
These explosions produced overpressures of 0.8, 1.25 & 1.46 bar, demonstrating the system's ability to withstand repeated exposure to blast and drag forces.

Using the latest 3D solid modeling software allow us to fully design and visualize the installation ensuring accuracy and ease of fitting.

Utilising the proven technology of Epoxy resins the system is designed and proven to meet the harshest environmental conditions.







Pre-cast insulation to sub-sea pipework - ready for installation by divers in 110m of water.

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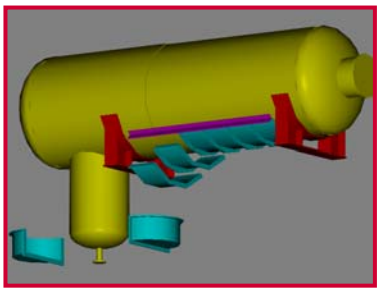
Epoxy Insulation Systems - for Process & Under PFP Insulation

The development of Epoxy Insulation resins opened up a whole new range of opportunities in epoxy fire protection for use on hot surfaces that previously exceeded the capabilities of the intumescent materials. The first priority was to ensure that the composite system performed in the most arduous fire hazards.

Preparing the Insulant and Intumescent test piece.

Jet Fire Test to the latest OTI 95 634 standard

Once the material performance had been proven it was possible to start using the system to provide fire protection to hot operating process vessels, risers and ESD valves.



CAD design for a removable PFP system on a process vessel

Castings manufactured onshore using the latest CAD/CAM technology

Three years on & the installed PFP system is performing well offshore

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