

Intertherm 7050

Syntactic epoxy foam

Intertherm® 7050 has been engineered to provide insulation protection against cryogenic spills, flare radiation and hot steel substrates.

With its low installed weight, Intertherm® 7050 is ideal for offsite module fabrication particularly where modules have to be lifted and transported.

- Zero volatile content (100% volume solids)
- Excellent spray ability
- Low nominal density of 36 lb/ft³ (0.6 g/cc)
- Long term durability - based on Chartek® technology
- Damage and impact resistant
- Can be used with Chartek® epoxy intumescent to provide combined insulation and fire protection



Highly durable insulation technology used for hot or extreme cold conditions, simple and quick Installation

Intertherm® 7050 is a versatile material for use in numerous applications where long term corrosion protection and insulation is required.

Cryogenic spill protection

Liquefied Natural Gas can cause construction grade carbon steels to rapidly cool in temperature leading to embrittlement and loss of structural integrity. Intertherm® 7050 has been recognized by oil majors as the leading technology solution to guard against this phenomenon.

The scope of our testing has shown that Intertherm® 7050 is suitable for use in the most onerous cryogenic liquid immersion conditions.

Intertherm® 7050 and Chartek® duplex systems also meet long term corrosion protection, fire and blast expectations even after exposure to cryogenic liquid immersion.

Chartek protection against flare radiation and hot steel substrates

Intertherm® 7050 can be used to extend Chartek® epoxy intumescent fire protection applications when used as a duplex system.

Process conditions and flaring operations can lead to substrate and coating conditions which are above those of the maximum Chartek® operating temperature.

Intertherm® 7050 can be used as an underlayment or overlayment to protect Chartek® at continuous temperatures up to 248°F (120°C), and intermittent temperatures up to 365°F (185°C), which can be found on vessels, pipework, risers, flare towers and surrounding structural steel.

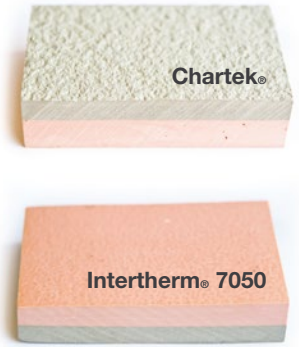
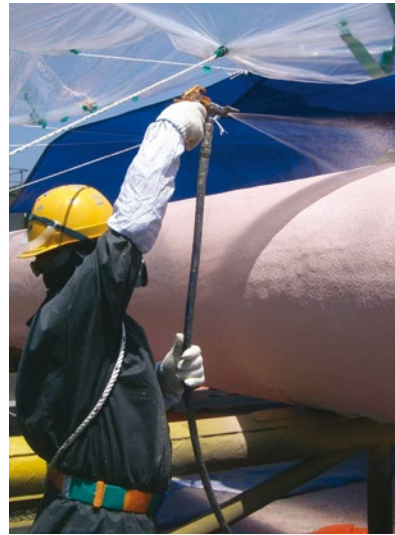
Niche insulation applications

Intertherm® 7050 can also be used to provide benefits in the following areas:

- Personnel protection from hot pipes
- Steel protection against extreme damp wet conditions
- Underdecks to limit maintenance
- High corrosion risk areas
- Pipelines
- Buried pipes
- Pre-insulated vessels
- Tank roofs

Enhanced durability

Tested and approved to ISO20340 and Norsok M-501 standards, Intertherm® 7050 still provides excellent insulation even after rigorous accelerated weathering. Being virtually impervious to water and extremely durable Intertherm® 7050 minimizes life-cycle costs.



Easy installation and constructability

Intertherm® 7050 can be easily and quickly installed to the most complex pipe and process equipment configurations by means of airless spray, trowel and casting techniques.

Greatly enhancing productivity, Intertherm® 7050 is sprayed with the same application equipment as Chartek®.

Intertherm® 7050 also builds film thickness quickly in coats of up to 0.196 in (5mm) at a time. With its low installed weight, resistance to damage and cracking Intertherm® 7050 is ideal for use during modular construction where offsite fabricated modules have to be lifted and moved to their final installation location.

Intertherm® 7050 performance data

PROPERTY	VALUE	METHOD
Thermal conductivity	0.061 BTU/Ft-Hr-°F (0.118 W/m-°K)	ASTM C177
Compressive strength	7500 psi (51.7 N/mm ²)	ASTM D695
Hardness	78 Shore D	ASTM D2240
Accelerated weathering & corrosion testing	No blistering, cracking, delamination Corrosion creep value below 0.31 in (8 mm)	ISO20340
Accelerated corrosion testing	6000 Hours hot salt spray No blistering, cracking, delamination	ASTM B177

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