

Linings for downstream oil and gas

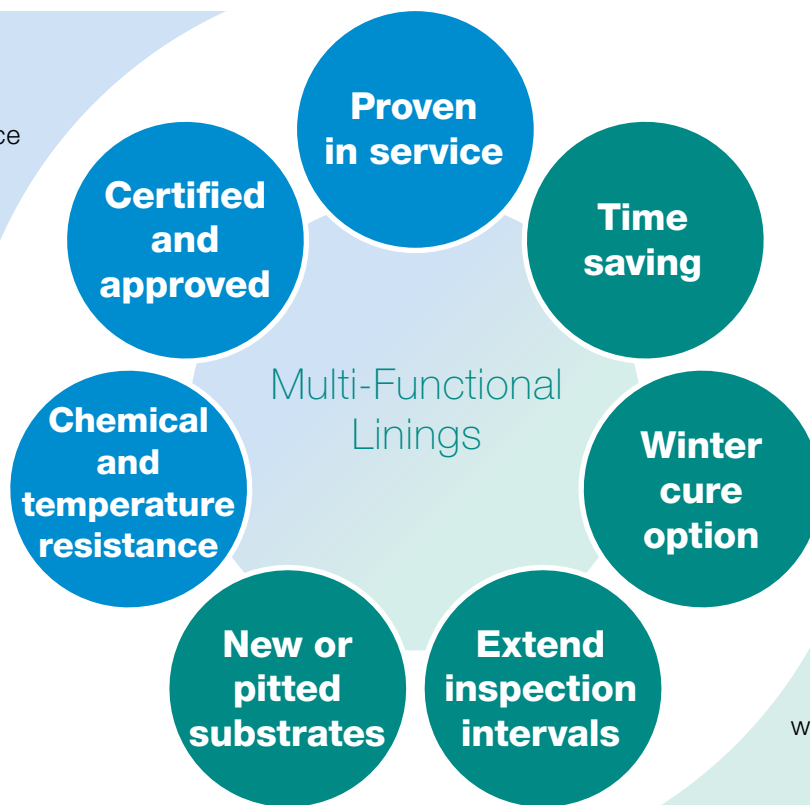
High performance linings with a proven track record



Our Multi-Functional Linings are optimized to reduce downtime and risk while maximizing performance

Reliability

Our high-performance tank linings protect your assets with proven performance in the petrochemical industry you can rely on



Productivity

Our innovative linings add value by providing the solutions you require when you need them most



- 100+ years' experience in linings**
- 170+ high performance products**
- 420+ highly trained technical service representatives**

Whatever your challenge, we will work with you to find a solution. Get in touch with one of our representatives to see how you can benefit.

Thick film reinforced linings

Enviroline® 376F-60 and 405HTR

- Hole bridging capability up to 50mm diameter
- High volume solids/low VOC
- Quickly spray applied as single coat due to incorporated fiber in product
- Complies to API 652/653 definition of thick film reinforced lining adding +5 years to inspection interval
- Reduces shutdown duration due to rapid cure
- Pit fill and line in one operation
- Suitable for heavily pitted substrates

Product	Enviroline 376F-60	Enviroline 405HTR
Resin	Polycyclamine cured epoxy novolac	
Return to service @ 25°C	14 hours	14 hours
Temperature resistance (crude oil + water)	93°C	150°C
Typical thickness	1x1250µm	1x750µm

Thick film linings

Interline® 984, 975(P), 955

- High volume solids/low VOC
- Single or multi-coat systems
- Standard airless spray application
- Interline 984 can be reinforced with chopped strand (Matcote®) or fiber glass mat
- Suitable for heavily pitted substrates

Product	Interline 984	Interline 975(P)	Interline 955
Resin	Epoxy phenolic	Epoxy	Glass flake Novolac vinyl ester
Return to service @ 25°C	1-6 days	7 days	24 hours
Temperature resistance (crude oil + water)	93°C	55°C	90°C
Typical thickness	1x500µm	1x400µm	2x500µm

Thin film linings

Interline 850, 399

- Good chemical resistance
- Designed for new and lightly pitted steel
- Multi-layer systems
- Solvent based
- Cost effective option for substrates with low levels of pitting

Product	Interline 850	Interline 399
Resin	Epoxy phenolic	Epoxy novolac
Return to service @ 25°C	2-6 days	7 days
Temperature resistance (crude oil + water)	55°C	130°C
Typical thickness	2x125µm	3x100µm

Interline 984 and 850

are EI 1541 compliant for Jet Fuel Storage

Reinforced linings improve the durability of a lining and could extend your tank inspection and maintenance cycle

Interline Matcote system



Many owners select reinforced tank linings to extend the inspection interval of a tank, in particular for the maintenance of pitted tanks. **We offer a full range of solutions for these circumstances:**

- Traditional hand lay glass fiber matting can be incorporated in **Interline 984** for the heaviest levels of reinforcement.
- The **Matcote** reinforced system utilizes chopped glass fiber applied through a specialized chopper gun to increase application rates.
- **Enviroline** offers linings which incorporate flake and fiber in the product and are spray applied in a single coat. This along with rapid cure can significantly reduce the maintenance project time.
- All reinforced AkzoNobel systems are recognized by API Standards 652/653 and can extend tank inspection intervals.

Hand
lay mat
reinforced

25m²/hr

Typical application rate of reinforced
systems for tank bottom repair

Interline 984 Matcote

Chopped glass fiber reinforced

60m²/hr

Enviroline 405HTR and Enviroline 376F-60

Flake and fiber reinforcement incorporated in product

180m²/hr