

# 90+

## Years of helping your assets resist chemical attack

Excellent chemical resistance gives you reassurance that dangerous chemicals are safely stored and not a threat to the environment or health & safety.

- Whether on concrete or steel; primary or secondary containment, International protective coatings has a solution for your needs
- Low VOC linings help you meet environmental legislation
- Long service life reduces repeat applications

### Secondary containment

(also known as bunds)  
These are areas around primary containments to prevent any leakage from the primary containment spreading uncontrolled into the wider environment. Exposure to chemicals is therefore not planned to be long-term with many local regulations specifying maximum exposure durations of 72 hours before clean-up must take place.

### Primary containment

Typically a storage tank, process vessel or sump where chemicals are in continuous long-term contact with the substrate.

### Considerations when selecting a lining

#### Substrate

- Is it metallic or cementitious?
- Does it require filling or reinforcement?

**Reinforcement** (concrete) – allows the lining to bridge cracks which appear after the linings has been applied)

**Filling** – creates a smooth and even surface on to which lining can be applied at the specified thickness.

#### Cargo

- Chemicals and concentrations
- Temperature (service & design)
- Required service life
- Excursions from normal service (cleaning etc)

	pH range
Ultra acidic	< 3.5
Extremely acidic	3.5-4.4
Very strong acidic	4.5-5.0
Strongly acidic	5.1-5.5
Moderately acidic	5.6-6.0
Slightly acidic	6.1-6.5
Neutral	6.6-7.3
Slightly alkaline	7.4-7.8
Moderately alkaline	7.9-8.4
strongly alkaline	8.5-9.0
Very strongly alkaline	> 9.0

Denomination