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Intershield 4000USP

Enhanced protection, optimized cost



Anticorrosive Universal System Primer

The latest innovation in corrosion protection, Intershield 4000USP is a Universal System Primer (USP) engineered to deliver very high durability and improve productivity.

A result of years of development, Intershield 4000USP is a unique combination of a densely crosslinking resin based on Alkylated Amine Epoxy technology, and a blend of passivating pigments. High performance, combined with versatility of use, makes Intershield 4000USP a viable alternative to zinc rich primers in protecting structural steel in modular fabrication or stick built projects.

Innovative formulation equals long term protection

- Based on Alkylated Amine Epoxy resin technology with a unique phenalkamine curing agent promoting dense crosslinking
- High loading of inhibitive pigments inducing passivation enhancement



Benefits & customer value

Typical cost for a 3 coat anticorrosive system*

Cost per sqm (US\$)



Cost Saving:

Material costs could be 15-20% lower when using Intershield 4000USP as a primer compared to systems using zinc rich primers.

Reduced Complexity:

A single primer specification for anti-corrosion and fire protection areas, resulting in a simplified specification.

Improved Productivity:

Easy application, fast cure and low temperature cure capabilities enable shortening of painting schedules.

Applicator & Environment Friendly: Low VOC content for improved Health & Safety and reduced environmental impact.

*C5 High Durability as per ISO12944:2018 Part 5. Typical cost estimated for a 3 coat system with a primer, epoxy intermediate and polyurethane topcoat.

Saving you time and money through specification simplicity

A complex specification often leads to unforeseen expenses and delays, with increased chance of human error and a requiring larger construction teams to inspect and monitor execution. Indeed, a 2017 study by the UK Oil & Gas Authority found that the average project in the UK Continental Shelf suffered delays of 10 months and cost over-runs of 35%, and that "many (but not all) operators issue too many specifications – many of which are not applicable or even contradictory".

Building on its unrivalled industry experience as the preferred coating supplied for large new construction projects, AkzoNobel has developed a range of Universal coatings formulated to promote specification simplicity. **Intershield 4000USP** takes this concept a step further as a new construction primer, combining versatility in terms of substrate, thickness, application conditions, construction environment and end use (both anti-corrosive and fire protection schemes).



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Test data and typical systems

The development of Intershield 4000USP involved rigorous testing using accelerated corrosion tests as well as exposure in harsh external weathering sites. Extensive in-house and third party testing has confirmed the efficacy of Intershield 4000USP in providing long term protection in C4 and C5 environments.

Test data available for Intershield 4000USP includes:

- Accelerated corrosion tests done in-house as well as at third party labs as per ISO12944-6:2018, confirming suitability for use as Very High Durability systems for C4 and C5 environments
- External weathering exposure at coastal exposure sites in temperate and tropical locations
- Fire testing and cryogenic spill testing with Chartek systems

Approved schemes

Intershield 4000USP has been approved as a primer for C5 environments. Below are examples of approved schemes for the different environments:

C5 Very high durability

	Scheme	DFT (µm)
1	Intershield 4000USP	75
	Intergard 475HS	145
	Interhane 990	60
	Total	280
	Interzinc 4000USP	75
•	Intergard 475HS	185
2	Interhane 990	60
	Total	320
3	Interzinc 4000USP	100
	Intergard 475HS	200
	Interhane 990	60
	Total	360

C4 Very high durability

	Scheme	DFT (µm)
1	Intershield 4000USP	75
	Intergard 475HS	115
	Interhane 990	50
	Total	240
2	Intershield 4000USP	200
	Interthane 990	60
	Total	260

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