Intershield® 300HS

High Solids Abrasion Resistant Aluminium Pure Epoxy

Product Description

A light coloured, abrasion resistant, aluminium pure epoxy coating which provides ultimate long-term anti-corrosive protection and low temperature application capability down to -10ºC.

A universal primer which can be applied directly to mechanically prepared shop primer or suitably prepared bare steel. Suitable for use with controlled cathodic protection. For use at Newbuilding.

Features

- Ultimate balance between corrosion protection and crack resistance at a range of dry film thickness levels, providing long-term asset protection and rapid return on investment for the shipowner
- >9% by weight aluminium pigmentation in the dry film, the maximum allowed by the class societies, has been demonstrated to provide excellent corrosion protection and resistance to cathodic disbondment
- Abrasion resistant formulation provides long-term protection in cargo holds and on the external hull, maximising profitability and protecting the asset respectively
- IMO PSPC compliant for water ballast tanks and crude oil tanks
- Excellent year-round workability offering an efficient application process
- High solids formulation meets VOC regulations globally with a VOC level of 176g/l (US EPA 24) and 154g/kg (EU Solvent Emissions Directive)

Product Information

Colour	**Supply Location A**: ENA370 Bronze, ENA371 Aluminium, ENA372 Light Red **Supply Location B**: ENA380 Bronze, ENA381 Aluminium, ENA382 Light Red **Location A**: Korea, Japan **Location B** All other locations
Surface preparation	Surface should be clean, dry and free from contamination
Volume solids	78% ± 2% (ISO 3233:1998)
Typical film thickness	100-200 microns dry per coat (universal primer) 2x160 microns dry (IMO PSPC ballast tanks and crude oil tanks)
VOC	176 g/lt (US EPA Method 24) 154 g/kg (EU Solvent Emissions Directive)
Hard dry	4 hours at 25ºC
Minimum application temperature	-10°C
Method of application	Airless spray, Brush, Roller

Application Properties

Completed vessel application at shipyard in China

Ballast tank application at shipyard in China

Flat bottom application at shipyard in China

Outside hull application at shipyard in Korea

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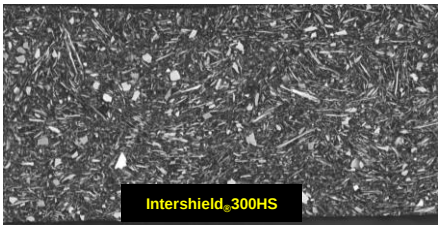
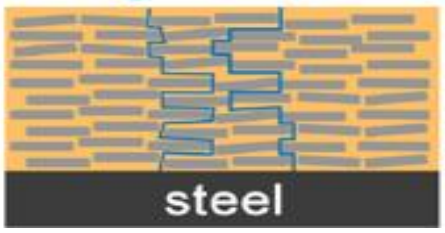
>9% by Weight Aluminium Pigment

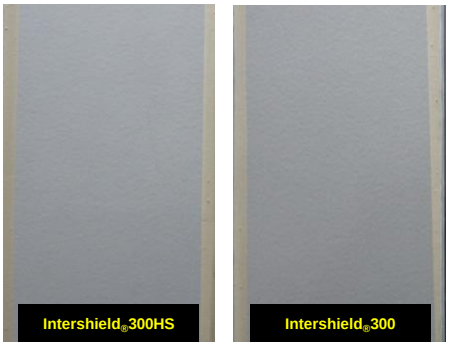
Research has proved that aluminium pigmentation significantly improves the resistance of anti-corrosive coatings to cathodic disbondment, while also providing enhanced barrier properties and crack resistance. At >9% by weight in the dry film, Intershield®300HS has the maximum loading in the dry film allowed by class societies.



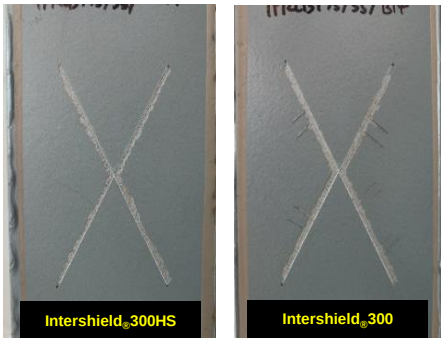


Outstanding Anti-Corrosive Performance

Intershield®300HS was developed from Intershield®300 technology, which has proven long-term anti-corrosive performance, substantiated by an extensive track record. This formulation has been further developed to produce a high solids (78%) version of Intershield®300 with the same performance in all criteria.



18 Months 40ºC Seawater Immersion
2x160 Microns Dry Film Thickness (DFT) No defects



AkzoNobel Cathodic Disbondment Test
2x160 Microns DFT <3mm creep following test

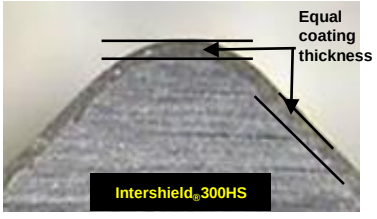
Excellent Crack Resistance

Due to the complex structure of ballast tanks, over-application is common. Intershield®300HS and Intershield®300 were tested in AkzoNobel's cyclic crack resistance test. No defects were observed following the full 50 cycles on test.

AkzoNobel crack resistance test (-20ºC to +60ºC cycling)
1,500 Microns System DFT No defects

Edge Retention

Edges in ballast tanks are generally the first place to corrode. Coatings with good edge retention are required to ensure the same film thickness on edges as other areas.



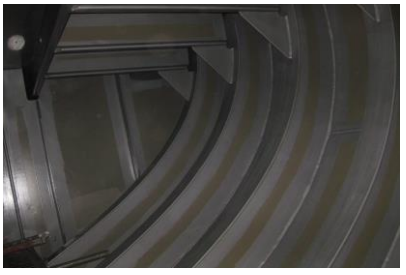
Excellent edge retention

Application Properties

Completed vessel application at shipyard in Europe

Ballast tank application at shipyard in Europe

Outside hull application at shipyard in China



Ballast tank application in China

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