

Passivation Enhanced Primer

PRODUCT Intershield 4000USP is a high performance Universal System Primer based on passivation DESCRIPTION enhanced, alkylated amine epoxy technology. Combines the synergistic effects of a blend of anticorrosive pigments and specially formulated unique resin technology. Enables rapid cure and overcoating even at low temperatures.

INTENDED USES A universal primer intended for both anticorrosive and passive fire protection systems, providing very high durability performance in harsh corrosive environments. Developed as a new construction primer, for reduction of specification complexity and improved productivity.

Compliant with the performance requirements of zinc rich schemes according to ISO12944-6:2018, for very high durability in onshore environments.

	Colour	Grey, Red, Buff			
INFORMATION FOR INTERSHIELD 4000USP	Gloss Level	Semi-gloss			
	Volume Solids	75% ± 2%			
	Typical Thickness		(3-8 mils) dry equiva s (4-10.7 mils) wet	alent to	
	Theoretical Coverage		microns d.f.t and sta llon at 6 mils d.f.t and		ds
	Practical Coverage	Allow appropria	te loss factors		
	Method of Application	Airless Spray, A	ir Spray, Brush, Rol	ler	
	Drying Time				
					g Interval with ded topcoats
	Temperature	Touch Dry	Hard Dry	Minimum	Maximum
	-5°C (23°E) ²	2.5 hours ²	24 hours ²	*2	*12

-5°C (23°F) ²	2.5 hours ²	24 hours ²	*2	*12
5°C (41°F)	2 hours	5.5 hours	4 hours	Extended ¹
15°C (59°F)	60 minutes	3.5 hours	3 hours	Extended ¹
25°C (77°F)	30 minutes	2.5 hours	2 hours	Extended ¹
40°C (104°F)	15 minutes	60 minutes	60 minutes	Extended ¹

¹ Where overcoating is with epoxy intermediates or epoxy finishes. Overcoating intervals may be reduced with other approved finishes; contact International Paint for further information.
 ² Overcoating time is dependent on the subsequent coating; please contact International Paint for further information.

ATORY DATA	Flash Point (Typical)	Part A 33°C (91	I°F); Part B 30°C (86°F); Mixed 31°C (88°F)
	Product Weight	1.59 kg/l (13.3 l	b/gal)
	VOC	227 g/lt	Calculated

See Product Characteristics section for further details

Protective Coatings

REGULA

AkzoNobel



Passivation Enhanced Primer

SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000. Where necessary, remove weld spatter and where required smooth weld seams and sharp edges. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Steel

Best performance will always be achieved when Intershield 4000USP is applied to surfaces prepared by abrasive blast cleaning to Sa2½ (ISO8501-1:2007) or SSPC SP6. Intershield 4000USP must be applied before oxidation of the steel occurs. If oxidation does occur, the surface should be re-blasted to the standard specified. Surface defects revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner.

A sharp, angular surface profile of 50-75 microns (2-3 mils) is recommended.

APPLICATION	Mixing	in the proportions suppli within the working pot lif (1) Agitate Base (1) (2) Combine entire	ed. Once the unit h e specified. Part A) with a powe	g Agent (Part B) with Base
	Mix Ratio	3 part(s): 1 part(s) by vo	lume	
	Working Pot Life	5°C (41°F) 15°C (59 90 minutes 60 minu	, , ,	40°C (104°F) 30 minutes
	Airless Spray	Recommended).53 mm (17-21 thou) pressure at spray tip not less (2204 p.s.i.)
	Air Spray (Pressure Pot)	Suitable	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E
	Brush	Suitable		or small areas and repairs, I be necessary to achieve the thickness.
	Roller	Suitable		or small areas and repairs, I be necessary to achieve the thickness.
	Thinner	International GTA220	Do not thin more environmental leg	than allowed by local gislation
	Cleaner	International GTA822		
	Work Stoppages	paint have been mixed t	pment with Internat hey should not be r	In or spray equipment. ional GTA822. Once units of esealed and it is advised that ces with freshly mixed units.
	Clean Up	good working practice to	periodically clean on ncy of cleaning will	vith International GTA822. It is equipment during the course of depend upon amount used, y delays.
		All surplus materials and accordance with approp		



Passivation Enhanced Primer

PRODUCTIntershield 4000USP is designed for use as part of an approved coating specification in harsh**CHARACTERISTICS**corrosive environments as an alternative to zinc based materials.

Apply in good climatic conditions. The temperature of the surface to be coated must be at least $3^{\circ}C$ ($5^{\circ}F$) above the dew point.

Intershield 4000USP is capable of curing at temperatures below 0°C (32°F). However, this product should not be applied at temperatures below 0°C (32°F) where there is a possibility of ice formation on the substrate.

When applying Intershield 4000USP by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

In common with all epoxies, Intershield 4000USP will chalk and discolour on exterior exposure.

Absolute measured adhesion of topcoats to aged Intershield 4000USP is less than that to fresh material, however, it is adequate for the specified end use.

Over-application of Intershield 4000USP will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties.

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

Low molecular weight reactive additives, which will form part of the film during normal ambient cure conditions, will also affect VOC values determined using EPA Method 24.

SYSTEMS COMPATIBILITY The following topcoats and intermediates can be applied to Intershield 4000USP:

Intergard 475HS Interseal 670HS

Interthane 990

For further advice on system compatibility contact International Protective Coatings.



Passivation Enhanced Primer

FORMATION		ding industry standards, te ving documents available a		viations used in this data sheet ional-pc.com:
	Definitions &	Abbreviations		
	Surface Prep	aration		
	Paint Applica	tion		
	Theoretical &	Practical Coverage		
	Individual copies of these	information sections are a	available upon r	request.
AFETY RECAUTIONS	accordance with the advi	for use only by profession ice given on this sheet, the out reference to the Safety	e Safety Data S	heet and the container(s), and
	All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.			
	In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.			
	Į.	critilation.		
	-		duct, consult In	ternational Protective Coatings
PACK SIZE	If in doubt regarding the	suitability of use of this pro Part A	oduct, consult In Part E	_
PACK SIZE	If in doubt regarding the s for further advice. Unit Size	suitability of use of this pro Part A Vol Pack	Part E Vol	B Pack
PACK SIZE	If in doubt regarding the s for further advice. Unit Size 20 litre	Suitability of use of this pro Part A Vol Pack 15 litre 20 litre	Part E Vol 5 litre	Pack 5 litre
PACK SIZE	If in doubt regarding the s for further advice. Unit Size 20 litre	suitability of use of this pro Part A Vol Pack	Part E Vol 5 litre	Pack 5 litre
PACK SIZE SHIPPING WEIGH (TYPICAL)	If in doubt regarding the s for further advice. Unit Size 20 litre For availability of	Suitability of use of this pro Part A Vol Pack 15 litre 20 litre	Part E Vol 5 litre	Pack 5 litre
SHIPPING WEIGH	If in doubt regarding the s for further advice. Unit Size 20 litre For availability of Unit Size	Part A Vol Pack 15 litre 20 litre other pack sizes, contact l Part A 26.8 kg	Part E Vol 5 litre nternational Pro Part B 7.1 kg °F). 6 months a pre-inspection t	Pack 5 litre otective Coatings. t temperatures in excess of hereafter. Store in dry,
SHIPPING WEIGH (TYPICAL)	If in doubt regarding the s for further advice. Unit Size 20 litre For availability of IT Unit Size 20 litre	Part A Vol Pack 15 litre 20 litre other pack sizes, contact I Part A 26.8 kg 12 months at 25°C (77 25°C (77°F). Subject to	Part E Vol 5 litre nternational Pro Part B 7.1 kg °F). 6 months a pre-inspection t	Pack 5 litre otective Coatings. t temperatures in excess of hereafter. Store in dry,

This Technical Data Sheet is available on our website at www.international-marine.com or www.international-pc.com, and should be the same as this document. Should there be any discrepancies between this document and the version of the Technical Data Sheet that appears on the website, then the version on the website will take precedence.

Copyright © AkzoNobel, 05/12/2019.

All trademarks mentioned in this publication are owned by, or licensed to, the AkzoNobel group of companies.

SKE Beschichtungssysteme GmbH I Buchenring 11 I D-21272 Egestorf Fon +49 (0) 4175 / 808 99 -31 I Fax +49 (0) 4175 / 808 99 -32 E-Mail: info@ske-beschichtungen.de I www.ske-beschichtungen.de