

Polyurethane Non-Skid

PRODUCT DESCRIPTION A two pack polyurethane finish with non-skid aggregate and anti skid properties.

INTENDED USES Specifically designed for external decks and flight decks where a coarse non-skid is required with the ability to resist chalking and wear.
Designed for Royal Malaysian Naval Vessels.
For use at Newbuilding, Maintenance & Repair or On Board Maintenance.

PRODUCT INFORMATION	Colour	Available in a range of colours
	Finish/Sheen	Not applicable
	Part B (Curing Agent)	PHA297
	Volume Solids	73% ±3% (ISO 3233:1998)
	Mix Ratio	9 volume(s) Part A to 1 volume(s) Part B
	Typical Film Thickness	400 microns dry (548 microns wet)
	Theoretical Coverage	1.82 m ² /litre at 400 microns dft, allow appropriate loss factors
	Method of Application	Brush, Roller, Trowel
	Flash Point (Typical)	Part A 34°C; Part B 49°C; Mixed 36°C
	Induction Period	Not required

Drying Information	5°C	10°C	25°C	35°C
Touch Dry [ISO 9117/3:2010]		12 hrs	6 hrs	3 mins
Hard Dry [ISO 9117-1:2009]		48 hrs	24 hrs	12 hrs
Pot Life		12 hrs	2 hrs	60 mins

Overcoating Data - see limitations	Substrate Temperature							
	5°C		10°C		25°C		35°C	
Overcoated By	Min	Max	Min	Max	Min	Max	Min	Max
Interthane 990	-	-	48 hrs	ext	24 hrs	ext	12 hrs	ext
Interthane 5013	-	-	60 hrs	ext	48 hrs	ext	24 hrs	ext

Note Drying and overcoating times quoted are measured at 400 microns dry, at higher film thickness times will be increased.

REGULATORY DATA **VOC** 260 g/lit as supplied (EPA Method 24)

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

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SYSTEMS AND COMPATIBILITY

Consult your International Paint representative for the system best suited for the surfaces to be protected. This product will not cure adequately below 10°C.

This product may be applied over Intershield 300, Intergard 248, Intergard 276, Interbond 373 and Interprime 820. The drying times and overcoating times may differ dependant upon varying on-site conditions, film thickness applied, ventilation rates etc. Do NOT apply over Intergard 263.

SURFACE PREPARATIONS

Use in accordance with the standard Worldwide Marine Specifications.

All surfaces to be coated should be clean, dry and free from contamination.

High pressure fresh water wash or fresh water wash and scrub as appropriate to remove all dust etc from the surface. Grease and Oil etc should be removed by degreasing or solvent wiping to AS1627.1 - 2003 providing a "water breakfree" surface free of contaminates.

NEWBUILDING/MAJOR REFURBISHMENT

Interthane 5013 should always be applied over a recommended primer. The primer surface should be dry and free from all contamination, and Interthane 5013 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

Areas of breakdown, damage etc should be prepared to the specified standard (eg AS1627.4 class 2.5 (Sa2.5 ISO 8501-1: 1988)) and primed prior to the application of Interthane 5013.

REPAIR/OBM

Interthane 5013 should always be applied over a recommended primer. The primer surface should be dry and free from all contamination, and Interthane 5013 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

Areas of breakdown, damage etc should be prepared to the specified standard (eg AS1627.4 class 2.5 (Sa2.5 ISO 8501-1: 1988)) and primed prior to the application of Interthane 5013.

Interthane 5013 may be applied directly over aged Interthane 990 or Interthane 5013 following thorough fresh water washing and degreasing to AS1627.1 - 2003 as above and sanding provided that the coating is in an intact and tightly adherent condition. Loose or flaking coatings should be taken back to a firm edge and Interbond 373 or an appropriate primer should be used to repair the area before application of the full coat.

This product may only be applied over Intershield 300, Interbond 373, Intergard 276, Intergard 269, Interprime 320 or sound intact Interthane 5013 provided proper cleaning as stated above has been carried out. If in doubt consult your International Paint representative.

If application over other surfaces is required consult International Paint for compatibility.

Consult your International Paint representative for specific recommendations.

NOTE

**For use in Marine situations in North America, the following surface preparation standards can be used:
SSPC-SP10 in place of Sa2½ (ISO 8501-1:2007)**

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APPLICATION	Application by Trowel is suitable. Confined Spaces - Forced air ventilation may be required. See relevant Material Safety Data Sheets.
Mixing	Material is supplied in 2 containers as a unit. Always mix a complete unit in the proportions supplied. (1) Agitate Part A with a power agitator, (2) Combine entire contents of Part A and B and mix thoroughly with a power agitator.
Thinner	Not Recommended. Use International GTA733 only in exceptional circumstances (max 5% by volume). DO NOT thin more than allowed by local environmental legislation.
Brush	Application by brush is recommended for small areas only. Multiple coats may be required to achieve specified film thickness.
Roller	Suitable in order to achieve the required non-skid properties, care should be taken to apply this product at the correct film thickness. Excessive application will reduce non-skid properties. When rolling to achieve uniformity in appearance it is suggested that this product be rolled with a good quality, 5-10 mm nape, epoxy roller sleeve and that all application should be in one direction. Application by broom or other method not specified is not recommended.
Cleaner	International GTA733/GTA415
Work Stoppages and Cleanup	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA733. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units. Clean all equipment immediately after use with International GTA733. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays. Do not exceed pot life limitations. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.
Welding	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. In North America do so in accordance with instruction in ANSI/ASC Z49.1 "Safety in Welding and Cutting."

SAFETY

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.

Prior to use, obtain, consult and follow the Material Safety Data Sheet for this product concerning health and safety information. Read and follow all precautionary notices on the Material Safety Data Sheet and container labels. If you do not fully understand these warnings and instructions or if you can not strictly comply with them, do not use this product. Proper ventilation and protective measures must be provided during application and drying to keep solvent vapour concentrations within safe limits and to protect against toxic or oxygen deficient hazards. Take precautions to avoid skin and eye contact (ie. gloves, goggles, face masks, barrier creams etc.) Actual safety measures are dependant on application methods and work environment.

EMERGENCY CONTACT NUMBERS:

USA/Canada - Medical Advisory Number 1-800-854-6813

Europe - Contact (44) 191 4696111. For advice to Doctors & Hospitals only contact (44) 207 6359191

R.O.W. - Contact Regional Office

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LIMITATIONS

This product is not recommended for use in immersed conditions. Once applied flight operations should not be undertaken between 7-14 days at 23°C when applied at 400 microns dft. It should be noted that at colder temperatures or higher dft readings this may increase. Over application of Interthane 5013 may cause the aggregate to settle resulting in a glossy finish and/or cracking of the coating. Low temperature, high relative humidity and condensation occurring during or immediately after application may result in a matt finish and an inferior film. Premature exposure to ponding water will cause colour change, especially in dark colours and at low temperatures.

Overcoating information is given for guidance only and is subject to regional variation depending upon local climate and environmental conditions. Consult your local International Paint representative for specific recommendations. Apply in good weather. Temperature of the surface to be coated must be at least 3°C above the dew point. For optimum application properties bring the material to 21-27°C, unless specifically instructed otherwise, prior to mixing and application. Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE Section of this data sheet. Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures. Test performance results were obtained in a controlled laboratory environment and International Paint makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection, verification of performance and use of the coating.

In the overcoating data section 'ext' = extended overcoating period. Please refer to our Marine Painting Guide - Definitions and Abbreviations available on our website.

UNIT SIZE	Unit Size	Part A		Part B	
		Vol	Pack	Vol	Pack
	10 lt	9 lt	12 lt	1 lt	1 lt
For availability of other unit sizes consult International Paint					
UNIT SHIPPING WEIGHT (TYPICAL)	Unit Size	Unit Weight			
	10 lt	26.59 Kg			
STORAGE	Shelf Life	24 months minimum at 25°C. Subject to reinspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition			

WORLDWIDE AVAILABILITY Available in Malaysia only.

IMPORTANT NOTE

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

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.

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