

PRODUCT DESCRIPTION A high energy absorbent, abrasion resistant, two pack anticorrosive primer/finish which can be used at low temperatures (down to -5°C (23°F)).

INTENDED USES An abrasion resistant coating for above and below water use.
For use at Newbuilding, Maintenance & Repair or On Board Maintenance.

PRODUCT INFORMATION	Colour	HNA377-Red, HNA378-Red Oxide, HNA379-Black
	Finish/Sheen	Semi-gloss
	Converter/Curing Agent	HNA373
	Volume Solids	60% (ISO 3233:1998)
	Mix Ratio	2.50 volumes Part A to 1 volume Part B
	Typical Film Thickness	5.9 mils dry (9.8 mils wet)
	Theoretical Coverage	163 (ft ² /US Gal) at 150 microns dft, allow appropriate loss factors
	Method of Application	Airless Spray, Brush, Roller
	Flash Point	Part A 77°F ; Part B 68°F ; Mixed 81°F
	Induction Period	Not required

Drying Information

	23°F	41°F	77°F	95°F
Touch Dry [ISO 1517:73]	7hrs	5hrs	3hrs	2hrs
Hard Dry [ISO 9117:90]	10hrs	8hrs	6hrs	3hrs
Pot Life	6hrs	6hrs	2.5hrs	60mins

Overcoating Data - see limitations

Overcoated By	Substrate Temperature							
	23°F		41°F		77°F		95°F	
	Min	Max	Min	Max	Min	Max	Min	Max
Intergard 263	14hrs	14days	9hrs	14days	7hrs	14days	4hrs	14days
Intergard 269	-	-	9hrs	6mths	7hrs	6mths	4hrs	3mths
Intergard 377 Immersed Areas	14hrs	14days	9hrs	14days	7hrs	14days	4hrs	14days
Intergard 377 Non Immersed Areas	14hrs	6mths	9hrs	6mths	7hrs	6mths	3hrs	3mths
Intergard 740	-	-	9hrs	21days	7hrs	21days	3hrs	21days
Interthane 990	14hrs	7days	9hrs	5days	7hrs	3days	3hrs	2days

Note: For Intergard 740, Intergard 269 and Interthane 990 a minimum temperature of 5°C (41°F) is required to achieve full cure and specified performance.

REGULATORY DATA **VOC** 411 g/lit calculated

**SYSTEMS AND
COMPATIBILITY**

Consult your International Paint representative for the system best suited for the surfaces to be protected.

**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, as appropriate, and remove all oil or grease, soluble contaminants and other foreign matter in accordance with SSPC-SP1 solvent cleaning.

NEWBUILDING

Where necessary, remove weld spatter and smooth weld seams and sharp edges.

Weld seams and damaged areas should be blast cleaned to Sa2½ (ISO 8501-1:1988) or power tooled to Pt3 (JSRA SPSS:1984)

If the shop primer shows extensive or widely scattered breakdown, overall sweep blasting may be necessary.

For PVB and unapproved shop primers, the surface should be blast cleaned to Sa2½ (ISO 8501-1:1988)

For optimum mechanical properties on typical zinc and iron oxide epoxy shop primers, grit sweep intact areas to AS2 International Paint Sweep Blast Standards.

REPAIR

Consult International Paint.

OTHER

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 8501-1:1988)**

APPLICATION

Mixing	Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified. (1) Agitate Base (Part A) with a power agitator. (2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.
Thinner	Not recommended. Use GTA220 or International GTA415 only in exceptional circumstances (max 5% by volume). DO NOT thin more than allowed by local environmental legislation.
Airless Spray	Recommended. - Tip range 0.66 - 0.79mm (26-31 thou) - Total output fluid pressure at spray tip not less than 211 kg/cm ² (3000 p.s.i.)
Brush	Application by brush is recommended for small areas only. Multiple coats may be required to achieve specified film thickness.
Roller	Application by roller is recommended for small areas only. Multiple coats may be required to achieve specified film thickness.
Cleaner	International GTA822 or International GTA415
Work Stoppages and Cleanup	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA822 or International GTA415. 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 GTA822 or International GTA415. 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 (see page 4 of Data Sheet)

LIMITATIONS

Intergard 377 may be applied at substrate temperatures down to -5°C (23°F), however consideration should be given when overcoating at low temperatures as the remainder of the system may require higher temperatures to achieve full cure.

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 (5°F) above the dew point. For optimum application properties bring the material to 21-27°C (70-80°F), 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.

UNIT SIZE

3.5 US gallon unit: Intergard 377, Part A, 2.5 US gallons in a 5 US gallon container and Part B, 1 US gallon in a 1 US gallon container.
20 litre unit: Intergard 377, Part A, 14.29 litres in a 20 litre container and Part B, 5.71 litres in a 10 litre container.
For availability of other unit sizes consult International Paint.

UNIT SHIPPING WEIGHT

20 litre unit: 28.52 kg
3.5 US gallon unit : 38.5 lbs

STORAGE


Shelf Life
12 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.

**WORLDWIDE
AVAILABILITY**

Consult International Paint.

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 law) any loss or damage arising out of the use of the product. 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 International Paint representative that this data sheet is current prior to using the product.

 **International** and product names mentioned in this data sheet are trademarks of or are licensed to Akzo Nobel.

© Akzo Nobel, 2005

Worldwide Operations

Argentina, Australia, Bahrain, Belgium, Brazil, Bulgaria, Canada, Chile, Colombia, Croatia, Cuba, Cyprus, Denmark, Ecuador, Egypt, Estonia, Fiji, Finland, France, Germany, Greece, Hong Kong, Iceland, India, Indonesia, Iran, Italy, Japan, Kuwait, Latvia, Lithuania, Luxembourg, Malaysia, Malta, Mexico, Netherlands, New Zealand, Northern Ireland, Norway, Pakistan, Panama, Papua New Guinea, Peoples Republic of China, Peru, Philippines, Poland, Portugal, Qatar, Republic of Ireland, Romania, Russia, Saudi Arabia, Singapore, Slovenia, South Africa, South Korea, Spain, Sri Lanka, Sweden, Taiwan, Thailand, Turkey, U.S.A., Ukraine, United Arab Emirates, United Kingdom, Uruguay, Venezuela, Vietnam, Western Samoa, Yemen

Head Office

International Paint Ltd, Oriel House, 16 Connaught Place, London W2 2ZB, United Kingdom, Tel: +44 (0) 207 479 6000, Fax: +44 (0) 207 479 6500

www.international-marine.com