SHERWIN WILLIAMS	Protective & Marine Coatings	(COROTH IRONO	
		NFORMATION		5.40
Revised June 3)	5.13
	PRODUCT DESCRIPTION RONOX A HS is a single component, low VOC,		RECOMMENDED Us	-
moisture curing ur	rethane finish coat with micaceous iron oxide.	Color topcoat for previously painted surfaces where maximum color retention and chemical resistance are required		
ing UV resistance urethane coatings		Chemical resistant coating for metallized surfaces, structural steel, and tanks		
 Excellent resista sunlight 	e application - down to 20°F (-7°C) ance to yellowing, chalking, or degradation by	 Superior coverage on edges and bridging over hairline cracks due to micaceous iron oxide 		
Superior chemic	ion to most surfaces cal and abrasion resistance	Recommended top	ocoat for lead overcoa	t system
Outstanding application properties		Suitable for use in USDA inspected facilities		
Pr	RODUCT CHARACTERISTICS	Perfoi	RMANCE CHARACT	ERISTICS
Finish:	Low Gloss	Substrate*: Steel		
Color:	Gray	Surface Preparation	n*: SSPC-SP5/NACE	1
Volume Solids:	64% ± 2%	System Tested*: 1 ct. Corothane I Ga	IvaPac Zinc Primer @ 3	.0 mils (75 microns) dft
Weight Solids:	82 % ± 2%	1 ct. Corothane I Ir *unless otherwise noted b	ronOx A HS @ 3.0 mils elow	s (75 microns) dft
VOC (calculated)	: <340 g/L; 2.80 lb/gal	Test Name	Test Method	Results
Recomm	nended Spreading Rate per coat:	Abrasion	ASTM D4060, CS17 wheel, 1000	160 mg loss
	Minimum Maximum	Resistance	cycles, 1kg load	100 mg 1033
Wet mils (micro Dry mils (micro		Adhesion	ASTM D4541	800 psi
Dry mils (microns) 2.5 (63) 3.5 (88) ~Coverage sq ft/gal (m²/L) 293 (7.2) 410 (10.0) Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft 1024 (25.1) NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.		Corrosion Weathering (with Ironox B as Intermediate)	ASTM D5894, 15 cycles, 5000 hrs	Rating 10 per ASTM D610 for Rusting (field); Rating 9 per ASTM D714 for Blistering
	edule @ 5.0 mils wet (125 microns):	Direct Impact Resistance	ASTM D2794	60 in. lbs.
	@ @ @ 20°F/-7°C 40°F/4.5°C 77°F/25°C 100°F/38°C 50% RH	Dry Heat Resistance	ASTM D2485	280°F (138°C)
To touch: To recoat: To cure:	6 hours 4 hours 1 hour 20 minutes 48 hours 24 hours 4 hours 1 hour 10 days 7 days 3 days 3 days	Flexibility	ASTM D522, 180° bend, 3/16" mandrel	Passes
	perature, humidity, and film thickness dependent. 12 months, unopened Store indoors at 40°F (4.5°C) to	Moisture Conden- sation Resistance	ASTM D4585, 100°F (38°C), 1000 hours	No rust, delamination or creepage at scribe
	100°F (38°C).	Pencil Hardness	ASTM D3363	3H
Flash Point: Reducer: Clean Up:	101°F (39°C), PMCC Reducer #15, R7K15 or Reducer R7K65 Reducer #15, R7K15	Salt Fog Resistance (with Ironox B as Intermediate)	ASTM B117, 5000 hours	Rating 10 per ASTM D610 for Rusting (field); Rating 8 per ASTM D714 for
		<u> </u>		Blistering



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PRODUCT INFORMATION

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Recommended Systems				SURFACE PREPARATION	
		Dry Film T <u>Mils</u>	hickness / ct. (<u>Microns)</u>	Surface must be clean,	dry, and in sound condition. Remove all
Steel: 1 ct.	Corothane I GalvaPac Zinc Primer	3.0-4.0	(75-100)	oil, dust, grease, dirt, l ensure adequate adhes	oose rust, and other foreign material to sion.
1-2 cts.	Corothane I IronOx A HS	2.5-3.5	(63-88)	Refer to product Application information.	ation Bulletin for detailed surface prepara-
Steel: 1 ct. 1 ct. 1 ct.	Corothane I GalvaPac Zinc Primer Corothane I Iron Ox B Corothane I IronOx A HS	3.0-4.0 3.0-5.0 2.5-3.5	(75-100) (75-125) (63-88)	Minimum recommended * Iron & Steel: Concrete & Masonry:	SSPC-SP6
Steel:		2.0 0.0	(00 00)	 * Previously Painted * Primer required 	Clean, dry, sound
1 ct. 1 ct. 1 ct.	Corothane I GalvaPac Zinc Primer Corothane I Iron Ox B Corothane I IronOx A HS	3.0-4.0 3.0-5.0 2.5-3.5	(75-100) (75-125) (63-88)		BS7079:A1 SIS055900 SSPC NACE Sa 3 Sa 3 SP 5 1 Sa 2.5 Sa 2.5 SP 10 2
Steel: 1 ct. 1 ct. 1 ct.	Corothane I PrePrime Corothane I Iron Ox B Corothane I IronOx A HS	1.5-2.0 3.0-5.0 2.5-3.5	(40-50) (75-125) (63-88)	Commercial Blast Brush-Off Blast Hand Tool Cleaning Pitted & I Power Tool Cleaning Pitted & I Power Tool Cleaning Pitted & I	Sa 2 Sa 2 SP 6 3 Sa 1 SP 7 4 C SP 7 4 C St 2 C St 2 C St 2 SP 2 - C St 2 D St 2 SP 2 - C St 2 C St 3 SP 3 - C St 3 SP 3 - C St 3 SP 3 - C St 3 SP 3 - C St 3 SP 3 - C St 3 SP 3 - C St 3 SP 3 - C St 3 SP 3 - C St 3 SP 3 - C St 3 SP 3 - - C St 3 SP 3 -
Concre	te, smooth:				TINTING
1 ct. 1 ct.	Corothane I PrePrime Corothane I IronOx A HS	1.5-2.0 2.5-3.5	(40-50) (63-88)	Do not tint.	
Previou	usly Painted Surfaces:			Appl	ICATION CONDITIONS
Spot pri 2 cts. or	me bare steel with 1 coat of Corotha Corothane I IronOx A HS	ine I GalvaP 2.5-3.5	ac Zinc Primer (63-88)	Temperature: air and surface	20°F (-7°C) minimum, 100°F (38°C) maximum
1 ct. 1 ct.	Corothane I Iron Ox B Corothane I IronOx A HS	3.0-5.0 2.5-3.5	(75-125) (63-88)	material:	45°F (7°C) minimum Do not apply over surface ice
(Check	compatibility)		, , ,	Relative humidity:	30% minimum, 99% maximum
The sv	stems listed above are represent	ative of the	product's use	Refer to product Applica mation.	ation Bulletin for detailed application infor-
-	systems may be appropriate.		product 3 use,	ORD	ering Information
				Packaging:	1 gallon (3.78L) and 5 gallon (18.9L) containers
				Weight:	13.94 ± 0.2 lb/gal ; 1.67 Kg/L depending on color
				Saf	ETY P RECAUTIONS
				Refer to the MSDS sheet bet	fore use.
					d instructions are subject to change without notice. ns representative for additional technical data and
					WARRANTY
	DISCLAIMER	2		ing defects in accord with app	any warrants our products to be free of manufactur- licable Sherwin-Williams quality control procedures.
based u Such info pertain t Williams	rmation and recommendations set forth pon tests conducted by or on behalf of T ormation and recommendations set forth o the product offered at the time of pub representative to obtain the most recer ion Bulletin.	he Sherwin-V herein are sub lication. Con	Villiams Company. iject to change and sult your Sherwin-	Liability for products proven d tive product or the refund of determined by Sherwin-Willis OF ANY KIND IS MADE BY STATUTORY, BY OPERATION	efective, if any, is limited to replacement of the defec- the purchase price paid for the defective product as ams. NO OTHER WARRANTY OR GUARANTEE SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, DN OF LAW OR OTHERWISE, INCLUDING MER- SS FOR A PARTICULAR PURPOSE.



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APPLICATION BULLETIN

SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Iron & Steel

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910.

Follow the standard methods listed below when applicable:

ASTM D4258 Standard Practice for Cleaning Concrete.

ASTM D4259 Standard Practice for Abrading Concrete.

ASTM D4260 Standard Practice for Etching Concrete.

ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.

SSPC-SP 13/Nace 6 Surface Preparation of Concrete. ICRI No. 310.2R Concrete Surface Preparation.

Previously Painted Surfaces

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this product attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal Near White Metal		Sa 3 Sa 2.5	Sa 3 Sa 2.5	SP 5 SP 10	1
Commercial Blast Brush-Off Blast		Sa 2 Sa 1	Sa 2 Sa 1	SP 6 SP 7	3 4
Hand Tool Cleaning	Rusted Pitted & Rusted	C St 2 D St 2	C St 2 D St 2	SP 2 SP 2	-
Power Tool Cleaning	Durated	C St 3 D St 3	C St 3 D St 3	SP 3 SP 3	-

Application Conditions

Temperature: air and surface

20°F (-7°C) minimum, 100°F (38°C) maximum 45°F (7°C) minimum Do not apply over surface ice

Relative humidity:

material:

30% minimum, 99% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer	Reducer #15, R7K15 or Reducer
	R7K65
Clean Up	Reducer #15, R7K15

Airless Spray

Pump	30:1
Pressure	1800 - 2000 psi
Hose	-
Tip	011"015"
Filter	60 mesh
Reduction	As needed up to 10% by volume

Conventional Spray

Unit	<u>Graco</u>	Binks
Gun	900	95
Fluid Nozzle	070	66/65
Air Nozzle	947	66PR
Atomization Pressure	60-70 psi	60-70 psi
Fluid Pressure	15-20 psi	15-20 psi
Reduction	As needed up to	10% by volume

Brush

Brush	Natural bristle
Reduction	As needed up to 10% by volume

Roller

Cover	1/4" natural or synthetic with
	solvent resistant core
Reduction	As needed up to 10% by volume

If specific application equipment is not listed above, equivalent equipment may be substituted.



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Application P rocedures	PERFORMANCE TIPS			
Surface preparation must be completed as indicated.	Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.			
Mix paint thoroughly prior to use with a low speed power agitator. Filter slowly through a 55 mesh screen.	When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary,			
Apply paint at the recommended film thickness and spreading rate as indicated below:	cross spray at a right angle. Spreading rates are calculated on volume solids and do not include			
Recommended Spreading Rate per coat: Minimum Maximum Wet mils (microns) 4.0 (100) 5.5 (13.8) Dry mils (microns) 2.5 (63) 3.5 (88) ~Coverage sq ft/gal (m²/L) 293 (7.2) 410 (10.0) Theoretical coverage sq ft/gal (m²/L) 1024 (25.1) NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance. Drying Schedule @ 5.0 mils wet (125 microns): @	 an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build. Excessive reduction of material can affect film build, appearance, and adhesion. In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #15, R7K15. Pour a small amount of Reducer #15, R7K15 over the top of the paint in the can to prevent skinning or gelling. Place a temporary cover over the pail to keep excessive moisture, condensation, fog, or rain from contaminating the coating. It is recommend that partially used cans not be sealed/closed for use at a later date. Corothane KA Accelerator is acceptable for use. See data page 5.98 for details. 			
CLEAN UP INSTRUCTIONS Clean spills and spatters immediately with Reducer #15, R7K15. Clean tools immediately after use with Reducer #15, R7K15. Follow manufacturer's safety recommendations when using any solvent. DiscLaimer The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.	Refer to Product Information sheet for additional performance characteristics and properties. SAFETY PRECAUTIONS Refer to the MSDS sheet before use. Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions. WARRANTY The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.			