



COROTHANE® I HS ALIPHATIC FINISH COAT

B65W50 ULTRA WHITE B65T54 **ULTRADEEP BASE** B65R50 SAFETY RED

B65W51 EXTRA WHITE BASE B65B50 BLACK B65Y50 SAFETY YELLOW

PRODUCT INFORMATION

5.12

Recommended Systems				SURFACE PREPARATION		
		Dry Film Thi	ckness / ct.			
		Mils	(Microns)	Surface must be clean, dry, and in sound condition. Remove all		
Steel:				oil, dust, grease, dirt, loose rust, and other foreign material to		
ct.	Corothane I MIO-Aluminum	2.0-3.0	(50-75)	ensure adequate adhesion.		
ct.	Corothane I Ironox B	3.0-5.0	(75-125)			
ct.	Corothane I HS	2.0-3.0	(50-75)	Refer to product Application Bulletin for detailed surface prepara- tion information.		
Steel:						
ct.	Corothane I MIO-Aluminum	2.0-3.0	(50-75)	Minimum recommended surface preparation: *Iron & Steel: SSPC-SP6/NACE 3		
-2 cts.	Corothane I HS	2.0-3.0	(50-75)	*Iron & Steel: SSPC-SP6/NACE 3 *Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI		
				No. 310.2, CSP 1-3		
teel:		0040	(75 400)	*Previously Painted SSPC-SP2 or SP3		
ct.	Corothane I GalvaPac Zinc Primer	3.0-4.0	(75-100)	*Primer required		
ct.	Corothane I Ironox B	3.0-5.0	(75-125)	Surface Preparation Standards		
ct.	Corothane I HS	2.0-3.0	(50-75)	Condition of ISO 8501-1 Swedish Std.		
				Surface BS7079:A1 SIS055900 SSPC NACE White Metal Sa 3 Sa 3 SP 5 1		
teel:	Consthere I Dro Daire	4045	(05.40)	White Metal Sa 3 Sp 5 1 Near White Metal Sa 2.5 Sa 2.5 Sp 10 2 Commercial Blast Sa 2 Sp 6 3 Brush-Off Blast Sa 1 Sa 1 Sp 7 4		
ct.	Corothane I PrePrime	1.0-1.5	(25-40)	Brush-Off Blast Sa 2 Sa 2 SP 6 3 Brush-Off Blast Sa 1 Sa 1 SP 7 4		
ct.	Corothane I MIO-Aluminum	2.0-3.0	(50-75)	Hand Tool Cleaning Rusted C St 2 C St 2 SP 2 - Pitted & Rusted D St 2 D St 2 SP 2 -		
ct.	Corothane I Ironox B	3.0-5.0	(75-125)	Power Tool Cleaning Pitted & Rusted D St 3 D St 3 SP 3 -		
ct.	Corothane I HS	2.0-3.0	(50-75)	Pitted & Rusted D St 3 D St 3 SP 3 -		
teel (E	Epoxy Primer):			TINTING		
ct.	Dura-Plate 235	4.0-8.0	(100-200)			
-2 cts.	Corothane I HS Coat	2.0-3.0	(50-75)	Tint B65W51 and B65T54 only with Maxitoner colorants, 100% tint strength. Must be used within 7 days after tinting.		
oncre	te, smooth:					
ct.	Corothane I PrePrime	1.0-1.5	(25-40)	APPLICATION CONDITIONS		
ct.	Corothane I HS	2.0-3.0	(50-75)	Temperature:		
				air and surface: 20°F (-7°C) minimum, 100°F (38°C)		
	ete, rough:			maximum 45°E (7°C) minimum		
	ply profiled or damaged concrete floo			material: 45°F (7°C) minimum Do not apply over surface ice		
ct.	Kem Cati-Coat HS Epoxy Filler/Sea					
	as required to fill voids and provide			Relative humidity: 30% minimum, 99% maximum		
ct.	Corothane I HS	2.0-3.0	(50-75)	Refer to product Application Bulletin for detailed application infor-		
	usly Painted Surfaces:			mation.		
	ime bare steel with 1 coat of Corotha			Ordering Information		
ct.	Corothane I HS	2.0-3.0	(50-75)	ORDERING INFORMATION		
or	Consthere Lines ou D	2050		Packaging: 1 gallon (3.78L) and 5 gallon (18.9L)		
ct. ct.	Corothane I Ironox B Corothane I HS	3.0-5.0 2.0-3.0	(75-125)	containers /		
	compatibility)	2.0-3.0	(50-75)	Weight: 11.79 ± 0.2 lb/gal ; 1.4 Kg/L may vary by color		
				SAFETY PRECAUTIONS		
				Refer to the MSDS sheet before use.		
-	stems listed above are represent systems may be appropriate.	ative of the p	roduct's use,	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.		
	systems may be appropriate.			WARRANTY		
	Disclaimer	,		The Sherwin-Williams Company warrants our products to be free of manufactur-		
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Revised 11/11

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. 310.2, 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. Primer required.

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. 310.2 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 Commercial Blast Brush-Off Blast		Sa 3 Sa 2.5 Sa 2 Sa 1	Sa 3 Sa 2.5 Sa 2 Sa 1	SP 5 SP 10 SP 6 SP 7	1 2 3 4
Hand Tool Cleaning	Rusted Pitted & Rusted	C St 2 D St 2	C St 2 D St 2	SP 2 SP 2	2
Power Tool Cleaning	Rusted Pitted & Rusted	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/Clean Up

Brush/Roll	Reducer #15, R7K15
Spray	Aromatic 100 Reducer, R2K5
VOC exempt	

Airless Spray

Pump	30:1
Pressure	1800 - 2000 psi
Hose	1/4" ID
Тір	011"015"
Filter	60 mesh
Reduction	As needed up to 5% 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	5% by volume

Brush

Brush	Natural bristle
Reduction	As needed up to 5% by volume

Roller

Cover	1/4" natural or synthetic with
	solvent resistant core
Reduction	As needed up to 5% by volume

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



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Application Procedures	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, cross spray at a right angle.		
Apply paint at the recommended film thickness and spreading rate as indicated below:	an application loss factor due to surface profile, roughness or po- rosity of the surface, skill and technique of the applicator, method		
Recommended Spreading Rate per coat:	of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive		
Minimum Maximum	film build.		
Wet mils (microns) 3.5 (88) 5.0 (125) Dry mils (microns) 2.0 (50) 3.0 (75)	Excessive reduction of material can affect film build, appearance, and adhesion.		
~Coverage sq ft/gal (m²/L) 326 (8.0) 489 (12.0) Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft 976 (23.9)	In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #15, R7K15.		
NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.	Pour a small amount of Reducer #15, R7K15 over the top of the paint in the can to prevent skinning or gelling.		
Drying Schedule @ 4.0 mils wet (100 microns): @ 40°F/4.5°C @ 77°F/25°C @ 100°F/38°C	Place a temporary cover over the pail to keep excessive moisture, condensation, fog, or rain from contaminating the coating.		
50% RH	Do not exceed recommended dry film thickness.		
To touch:4 hours2 hours45 minutesTo recoat:12 hours6 hoursminimum:24 hours14 dours14 dours	When applying Corothane I - HS over dark colors, Corothane I Zinc Primers, or porous surfaces, an intermediate coat or a minimum of 2 finish coats is required for adequate hide and uniformity of appearance.		
maximum:14 days14 days14 daysTo cure:7 days3 days3 days	Tinted colors must be used within 7 days after tinting.		
If maximum recoat time is exceeded, abrade surface before recoating.			
Drying time is temperature, humidity, and film thickness dependent.	E-Z Roll Urethane Defoamer is acceptable for use. See data page 5.99 for details.		
Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating	Corothane KA Accelerator is acceptable for use. See data page 5.98 for details.		
performance.	It is recommend that partially used cans not be sealed/closed for use at a later date.		
	Refer to Product Information sheet for additional performance characteristics and properties.		
	SAFETY PRECAUTIONS		
	Refer to the MSDS sheet before use.		
CLEAN UP INSTRUCTIONS	Published technical data and instructions are subject to change without notice.		
Clean spills and spatters immediately with Reducer #15, R7K15. Clean tools	Contact your Sherwin-Williams representative for additional technical data and		
immediately after use with Reducer #15, R7K15. Follow manufacturer's	instructions.		
safety recommendations when using any solvent.	WARRANTY		
Disclaimer	The Sherwin-Williams Company warrants our products to be free of manufacturing		
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