HYDROGLOSS

SINGLE COMPONENT WATERBASED URETHANE

B65W00181 Extra White
B65T00184 Ultradeep Base

As of 03/20/2018, Complies with:			
OTC	Yes	LEED® 09 NC,.CI	N/A
OTC Phase II	Yes	LEED® 09 CS	N/A
SCAQMD	No	LEED® 09 S	N/A
CARB	Yes	LEED® v4 Emissions	No
CARB SCM 2007	Yes	LEED® v4 VOC	No
Canada	Yes	MPI	

CHARACTERISTICS

HYDROGLOSS™ is a single component, high performance, acrylic / polyester waterbased urethane. It provides toughness, flexibility, abrasion resistance, and excellent UV resistance. Exterior performance comparable to two component waterbased urethanes.

Features:
- Excellent UV resistant
- Color and gloss retention
- Chemical resistance
- Flexible

For use on properly prepared:
- Steel
- Galvanized & Aluminum
- Concrete/Masonry
- Previously Painted

Recommended for use in:
- General industrial
- Petro-Chemical
- Bridge and Highway
- Power Plants
- Corporate Logos
- Suitable for use in USDA inspected facilities

Tinting with CCE:

Base	oz/gal	Strength
Extra White	0 - 6	100%
Ultradeep	10 -14	100%

(Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color)

Shelf Life: 12 months,unopened
Mix Ratio: 1 component, N/A

Finish: 75°+@60° Gloss

Extra White B65W00181

VOC: (less exempt solvents)
214 g/L - 1.78 lb/gal
(as per 40 CFR 59.406 and SOR/2009-264, s. 12)
Volume Solids: 35 ± 2%
Weight Solids: 44 ± 2%
Weight per Gallon: 9.51 lb/gal
Flash Point: N/A

Ultradeep Base B65T00184

VOC: (less exempt solvents)
231 g/L - 1.93 lb/gal
(as per 40 CFR 59.406 and SOR/2009-264, s. 12)
Volume Solids: 33 ± 2%
Weight Solids: 37 ± 2%
Weight per Gallon: 8.65 lb/gal
Flash Point: N/A

SPECIFICATIONS

Color: Extra White & Ultradeep Tint Base-wide range of colors available
Recommended Spread Rate per coat: Extra White B65W00181 (may vary by base)
wet mils: 6.0 - 12.0
dry mils: 2.1 - 4.2
coverage: 267 - 133 sq ft/gal approximate
Theoretical coverage: 561 sq ft/gal @ 1 mil dry
Drying Schedule @ 5.0 mils wet, 50% RH: Drying time is temperature, humidity, and film thickness dependent.

	@ 50°F/10°C	@ 77°F/25°C	@ 120°F/49°C
To touch:	1 hour	1 hour	10 minutes
To handle:	2 hour	1 hour	15 minutes
Minimum recoat:	24 hours	8 hours	30 minutes
Maximum recoat*:	30 days	30 days	30 days
To cure:	14 days	3 days	3 days
Pot Life:	N/A	N/A	N/A
Sweat-in-time:	N/A	N/A	N/A

*If maximum recoat time is exceeded, abrade surface before recoating.

RECOMMENDED SYSTEMS

Steel & Rusted Galvanized, acrylic primer:
1ct. Pro Industrial Pro-Cryl Primer
2cts. HydroGloss
Steel alkyd primer:
1ct. Kem Bond HS
2cts. HydroGloss
Steel epoxy primer:
1ct. Water Based Tile-Clad Primer
2cts. HydroGloss
Steel Zinc primer:
1ct. Zinc VI
Or
1ct. Zinc Clad III HS
2cts. HydroGloss
Aluminum & Galvanized Metal:
1ct. DTM Wash Primer
2cts. HydroGloss

Concrete Block:
1ct. Pro Industrial Heavy Duty Block Filler
2cts. HydroGloss
Masonry/Smooth:
1ct. Loxon Concrete & Masonry Primer
2cts. HydroGloss
Masonry/Smooth: (Weathered or soft masonry)
1ct. Loxon Concrete & Masonry Primer
Or
1ct. Loxon Conditioner
2cts. HydroGloss
Previously Painted Hard, Slick, Glossy surfaces:
1ct. DTM Bonding Primer
2cts. HydroGloss

The systems listed above are representative of the product's use, other systems may be appropriate. Other primers may be appropriate.

System: (unless otherwise indicated)
Substrate: Steel
Surface Preparation: SSPC-SP10
Primer: Pro Industrial Pro-Cryl Primer– @ 3.0 mils dft/ct
2ct: HydroGloss – @ 3.0 mils dft/ct (unless otherwise noted)

Abrason Resistance:
Method: ASTM D4060, CS17 wheel, 1000 cycles, 1kg load
Results: 15.15 mg loss
Accelerated Weathering QUV:
Method: ASTM D4587, QUV-A,3000 hrs
Results: Passes
Adhesion:
Method: ASTM D4541
Results: 1195 psi
Dry Heat Resistance:
Method: ASTM D2485
Results: 240°F

Direct Impact:
Method: ASTM G14
Results: >160 in.lbs
Flexibility:
Method: ASTM D522, 180° bend, 1/8" mandrel
Result: Passes
Pencil Hardness:
Method: ASTM D3363
Results: 30 day: 6H
Chemical Resistance: Incidental contact
Excellent resistance to: 10% Hydrochloric Acid, 5% Phosphoric Acid, Aliphatic Hydrocarbon Solvent, Motor Oil 10W30, Vegetable Oil

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HYDROGLOSS
SINGLE COMPONENT WATERBASED URETHANE B65 SERIES

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (**NIOSH** approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent, followed by a water rinse. **Do not use hydrocarbon solvents for cleaning.**

Iron & Steel - Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3. Prime any bare steel within 8 hours or before flash rusting occurs.
Aluminum - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Primer required.
Galvanizing - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP16 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned. Primer required.
Masonry - All masonry must be free of dirt, oil, grease, loose paint, mortar, masonry dust, etc. Clean per SSPC-SP13/Nace 6/ ICRI No. 310.2R, CSP 1-3. Poured, troweled, or tilt-up concrete, plaster, mortar, etc. must be thoroughly cured at least 30 days at 75°F. Form release compounds and curing membranes must be removed by brush blasting. Brick must be allowed to weather for one year prior to surface preparation and painting. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat Loxon Conditioner, following label recommendations. **Concrete Block -** Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 50°F (10°C) before filling. Use Pro Industrial Heavy Duty Block Filler or Loxon Block Surfacer. The filler must be thoroughly dry before topcoating.
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. Always check for compatibility of the previously painted surface with the new coating by appying a test patch of 2 - 3 square feet. Allow to dry thoroughly for 1 week before checking adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

APPLICATION PROCEDURES

Apply paint at the recommended film thickness and spreading rate as indicated on front page. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance. Spreading rates are calculated on volume solids and do not include 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, over thinning, climatic conditions, and excessive film build.

SAFETY PRECAUTIONS

Refer to the SDS sheets before use. **FOR PROFESSIONAL USE ONLY**
Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

PERFORMANCE TIPS

Stripe coat crevices, welds, and sharp angles to prevent early failure in these areas.
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.
No painting should be done immediately after a rain or during foggy weather.
During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. Plan painting schedules to avoid these influences during the first 16-24 hours of curing.
Application temperature above 95°F (35°C) may cause dry spray, uneven sheen, and poor adhesion.
Application temperature below 50°F (10°C) may cause poor adhesion and lengthen the drying and curing time.
HydroGloss is extremely sensitive to hydrocarbon containing solvents. When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent, followed by a water rinse. Do not use hydrocarbon containing solvents.

APPLICATION

Refer to the SDS sheet before use
Temperature: 50°F/10°C minimum
120°F/49°C maximum
(Air, surface, and material)
At least 5°F above dew point
Relative humidity: 85% maximum

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 compatible with the existing environmental and application conditions. Excessive reduction of material can affect film build, appearance, and adhesion.

Reducer/Clean Up ..... Water
Airless Spray
Pressure ..... 1500-1800 psi
Hose ..... 1/4" ID
Tip ..... .015"-.019"
Filter ..... 60 mesh
Reduction ..... As needed up to 5% by volume
Conventional Spray
Gun ..... Binks 95
Fluid Nozzle 66
Air Nozzle 63PB
Atomization Pressure ..... 50 psi
Fluid Pressure ..... 15-20 psi
Reduction ..... As needed up to 5% by volume
Brush
Brush ..... Nylon / polyester
Reduction ..... Not recommended
Roller
Cover ..... 3/8" woven solvent resistant core
Reduction ..... Not recommended

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

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with soap and water.

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

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