General Industrial Coatings

CC-E43

D100 Waterbase Topcoat

Transparent Base (20 Gloss)	F83TA1502	Full White Base (40 Gloss)	F83WA1524
Transparent Base (40 Gloss)	F83TA1504	Vinylkleen	R07KAK001
Semi-White Base (20 Gloss)	F83WA1512	Vinyl Prep	R07KAP002
Semi-White Base (40 Gloss)	F83WA1514	Accelerator	V70VA2500
Full White Base (20 Gloss)	F83WA1522	Custom Tint Series	F83AN

DESCRIPTION

D100 Waterbase Topcoat is fast drying polyurethane-acrylic coating for fiberglass doors and other fiberglass door components. It is a single component topcoat, designed to meet industry specifications FGIA/AAMA 633 and 625 VCL listings requirements. D100 Waterbase Topcoat requires no primer; it is applied directly to properly cleaned and prepped fiberglass substrates.

Advantages:

- Excellent exterior durability and weatherability - long lasting color retention
- Formulated with superior heat reflective pigments providing long lasting color retention, exterior durability and weatherability
- Available in smooth & textured finishes and dark to light colors
- Hard mar resistant finish
- Use Vinylkleen and Vinyl Prep to gain excellent, consistent adhesion
- Ready to spray; no reduction needed
- Low odor
- Can be applied manually or via automatic spray equipment.
- Formulated to be Non-HAP
- *Formulated to meet 1.6-2.4 lbs./gal. VOC

* VOC Compliance limits vary from state to state; please consult local Air Quality rules and regulations.

An Environmental Data Sheet is available from your local Sherwin-Williams facility or at www.PaintDocs.Com.

CHARACTERISTICS

(vary by color)

60° Gloss: 15-50

Weight/Gallon: 8.8-10.2 Lbs.

Weight Solids: 36-50 %

Volume Solids: 31-37%

Viscosity: 350-950 cps
at 77° F, Brookfield RVT, #2 Spindle, 20 RPM
When measuring viscosity of D100, do not use Zahn or Ford viscosity cups since the product is thixotropic. Use of a Brookfield viscometer is recommended.

Recommended Film Thickness:

Mils Wet	4.1-6.5
Mils Dry	1.5-2.0

Spreading Rate (no application loss)**:**
332-396 ft.^{2}/gal. at 1.5 mils DFT

Cure (at 40-60% relative humidity)**:**

Air Dry	60 mins. at 77° F (25° C) & 55% RH
Infrared Curing (Optional)	15 mins. at 140° F (60° C) substrate temp., set in 3 stages
Force Dry	10-20 mins. flash, at 68-77° F 40 mins. at 85-130° F

Optional infrared curing, prior to force drying, can reduce Time to Full Properties by 50%.

Surface is dry-to-touch after the flash-off time.

Force drying leaves the coating sufficiently dry-to-handle and reduces the risk of humidity or particle contamination.

Air Drying: 4.1-6.5 mils at 77° F, 50% RH

To Touch	5-10 minutes
To Handle	2-4 hours
Through-Dry	8 hours
Total (Full Properties)	7 days

Recoat Window: If the coating is older than 7 days, it must be sanded/scuffed prior to reapplication or topcoating.

Flash Point: 499° F
(Pensky Martens Closed Cup)

Air Quality Data:
Non-photochemically Reactive
Volatile Organic Compounds (VOC)

Total	0.82-1.09 lb/gal, 98-131 g/L
Less Exempts	1.7-2.4 lbs./gal., 207-290 g/L

Recommended Storage: Inside, out of direct sunlight, sealed container, 40-95° F, Freeze Hazard.

Package Life: 1 year, unopened

SPECIFICATIONS

General: All substrates should be free of mold release, oil, grease, dirt, fingerprints, drawing compounds, surface passivation treatments and any other contaminants to ensure optimum adhesion and coating performance.

Testing: The information, data, and recommendations set forth in this Product Data Sheet are based upon test results believed to be reliable. However, due to the wide variety of substrates, substrate properties, surface preparation methods, equipment and tools, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.

continued on back

APPLICATION

Typical Setups

Reduction: D100 is ready to spray straight out of the can. If reduction is necessary, reduce the product by up to 3% by volume using distilled (or deionized) water. Further reduction will affect the performance of the coating.

May be applied by: Conventional Spray
HVLP Spray
Gravity Feed Spray Gun

Conventional Spray:

Gun	DeVilbiss JGK-501
Air Cap	797
Atomizing Pressure	40-50 psi
Tip	FF
Gun	DeVilbiss JGK-502
Air Cap	43
Atomizing Pressure	40-50 psi
Tip	FF

HVLP Spray:

Gun	Binks Mach IBBR
Air Cap	95P
Atomizing Pressure	40-65 psi
Tip	97

Gravity Feed Spray Gun:

Gun	3M Performance Spray Gun 26832
Atomizing Pressure	30-40 psi
Tip	1.8

Equipment/application guidelines are only guidelines and individual application & process parameters will dictate exact requirements.

Cleanup: It is essential that the spray equipment & tools be cleaned immediately after use to prevent damage. Rinse gun thoroughly with cold or warm water; it is best to circulate clean water through it for a few minutes. Pressurize the gun and spray water through it until the outgoing stream is clear. On a weekly basis, be sure to take gun apart and do nozzle maintenance.

Follow manufacturer's safety recommendations when using any solvent.

ADDITIONAL INFORMATION

1. Accelerator (V70VA2500) can be added up to 5% (vol.) to improve initial drying properties.
2. Once the accelerator is added to the paint it is effective for 30 days.
3. Clean the substrate with Vinylkleen R07KAK001 first. Then prepare the substrate with Vinyl Prep R07KAP002 Finish by application of the D100 Waterborne Topcoat.
4. Oven curing leaves the substrate sufficiently dry to handle and reduces risk of humidity or particle contamination.
5. Coating is fully cured and hardened after 7 days post-cure (3.5 days if optional infrared curing was utilized).
6. Due to the wide variety of substrates, surface preparation methods, application methods and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application. Ask your Sherwin-Williams Technical Representative for guidance.
7. Drying time is dependent on film thickness and application temperature & humidity. Heavier film thickness causes slower drying.

CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION ONLY

Thoroughly review the product label and Safety Data Sheet (SDS) for safety information and cautions prior to using this product.

To obtain the most current version of the Environmental Data Sheet (EDS), Product Data Sheet (PDS), or Safety Data Sheet (SDS) please visit your local Sherwin-Williams facility or www.PaintDocs.Com.

Please direct any questions or comments to your local Sherwin-Williams facility.

Note:
All purchases of products from Sherwin-Williams are exclusively subject to Sherwin-Williams' Standard Terms And Conditions Of Sale. Please review these terms and conditions prior to the purchase of the products.

Sherwin-Williams warrants the product to be free of manufacturing defect in accordance with Sherwin-Williams' quality control procedures. Except for the preceding sentence, due to factors that are outside of Sherwin-Williams' control, including substrate selection, and customer handling, preparation, and application, Sherwin-Williams cannot make any other warranties related to the product or the performance of the product. **SHERWIN-WILLIAMS DISCLAIMS ALL WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

Liability for products proven to be defectively manufactured will be limited solely to replacement of the defective product or the refund of the purchase price paid for the defective product, as determined by Sherwin -Williams. Under no circumstances shall Sherwin-Williams be liable for indirect, special, incidental or consequential damages, lost profits or punitive damages arising from any cause whatsoever.