



Instructions for Coating Fimbel Garage Door Sections



AquaSurTech D100 is a high performance heat reflective water-based coating. It has been shipped to you with a thickness suitable for manual application with a brush (alternatively with a foam brush or roller) however D100 can be sprayed with HVLP (High Volume Low Pressure) spray equipment as well. In order to spray, the sprayable formula must be ordered.

In either formulation the viscosity of the coating may be reduced (thinning), if necessary, by adding small amounts of distilled water until the desired consistency has been attained. Do not add more than 10% by volume.

Before starting verify your kit is complete.

Your kit includes the following items:

- 1.5 Liters of Aqua DIY D100 coating (in specified color) (may change for sprayable)
- 1 Aqua DIY Degreaser – VK (2 X 4 ounces)
- 1 Aqua DIY Cleaner -- VP (4 ounces)
- 1 brush
- 1 pair of rubber gloves
- 16 lint free sheets
- 1 wooden stir stick
- 3 abrasive cleaning pads (one per section)
- 3 sheets of 600 grit sandpaper (one per section)
- Application instructions



D100 is an ultra low VOC, environmentally safe water based coating. It is somewhat sensitive to temperature and humidity. Higher temperatures will cause the coating to become thinner and higher humidity will extend the overall drying time of the product. It is recommended to not attempt an application if the humidity is less than 40% and/or the temperature is below 50 F within a 24 hour period during and after the application. The 1.5 liters supplied will be sufficient to complete a 3 or 4 section Fimbel door up to 10' x 8' with some product left for future touch ups. Additional D100 coating can be purchased separately should the need arise.

D100 is an excellent coating for other substrates that may be found around the exterior of a home such as vinyl windows, fiberglass, wood and composite materials. If you have other components that you wish to coat using the D100 clean the surface thoroughly, apply in an inconspicuous area and test for proper adhesion once the coating has fully bonded and cured.

Door Preparation

D100 should be stirred prior to use and before starting each door section (1). Avoid shaking the container for mixing as this may introduce air bubbles into the coating and result in a poor finish during application. Prior to beginning your project we recommend applying the D200 coating on a small test sample to ensure it is the color ordered. The coating will darken as it dries and with multiple coats.



It is not necessary, but for a smoother finish you can lightly scuff sand all machined areas (around windows, V grooves, bead board, and coped edges). It is also recommended to lightly scuff sand any sharp edges for better adhesion along the edge. Be sure to thoroughly remove all sanding dust before the next step.

If the surface of the sections or section joints are excessively dirty it is recommended to wash them thoroughly with a mild soap & water mixture and allow to dry thoroughly. Surfaces must be clean, completely free of debris and contamination prior to beginning the application process.

If this project is a **RECOAT then the door should be lightly sanded** prior to continuing. After sanding, the door should be rinsed completely and dried.

Doors can be coated both when already installed or horizontally prior to installation. The following instructions apply to both these cases.

Masking

Use masking tape on all edges of the sections to ensure no brush marks or drips appear on areas you wish to leave white. If your sections include any windows, tape these around the edges prior to painting. (2)

Surface Cleaning

Sections must be cleaned thoroughly prior to coating; this is the most critical step to achieve many years of performance.

There are two steps to the cleaning process: Step 1 – Degreasing with “VK”, and Step 2- Wiping with cleaner “VP”

Step 1: Degreasing with VK (3)

Use the abrasive pads and lint free towels for this phase.

Clean the flat sections first, before the machined areas.

When cleaning the flat areas, apply the VK cleaner to the abrasive pad, and start scrubbing until light foam develops. Applying a bit more pressure specifically along the edges of the flat areas at this stage will ensure the coating “wraps” well around the edges. Then dry the surface fully.*

***If you purchased an American Legends (vinyl-clad steel) door: when using the abrasive pad be sure to spend additional time on the rounded joints and on areas where the PVC overlays meet the vinyl-clad steel panel. If there is any residual glue in these areas, please make sure it’s removed first.**

Next begin degreasing the machine areas, avoid direct contact with the scrubbing pad, the pad should be wrapped in a lint free cloth and the cleaner applied to the cloth. This will prevent any particles from the pad adhering to the rougher portions of machine areas. Also allow to dry fully when this is completed.

Step 2: Cleaning with VP (4)

Apply VP to a cloth and apply to both flats and machine areas. Wipe away any excess.

The surface will be dry in less than one minute since the VP evaporates quickly.

If accessible use an air gun to blow off any residual dust before application or use a “tack cloth” if the environment is very dusty.

Successful adhesion & curing of D100 to the sections is dependant on proper cleaning and preparation. Failure to follow the proper steps could result in peeling or flaking.

Quality Control – Cleaning

If the above steps are followed, the surface will be ready.

If there is any doubt, it is possible to verify with 100% certainty that the surface is free of contamination; this can be performed by a simple water test.

Water Test Procedure (4.5)

A squeeze bottle is ideal for this process. Place a few drops of water on the cleaned surface (around 1 teaspoon). No contaminants are present if the water does NOT bead and the surface remains wet.

In other words, if the water forms one single “pool” that stays together in contrast to separating into multiple drops. Unfortunately this only works on horizontal surfaces.

FAIL – If the surface fails the wet-ability test the product must be placed back into the cleaning process and a more aggressive cleaning performed.



Application:

The recommended manual application method of D100 onto the Fimbel door sections is with the brush, which is supplied in the kit (a foam brush or roller could also be used).

For maximum efficiency, performance, and color quality it is strongly recommended to use 2 - 3 even coats applied in succession. If the section coats are done in succession (do coat one on section 1 then section 2...), it should be possible to work continuously to complete an entire door. Unless the environmental conditions are cold and/or very humid, you will not need to wait before starting the next coat cycle.

If for any reason you need to stop, rinse the brush with water.

In technical terms, the goal of applying the coating is to end up with a dry film of no less than 1.5 mils.

CAUTION: Do not leave more than a few hours between coats (after the coat is dry), this could cause delamination between coats.

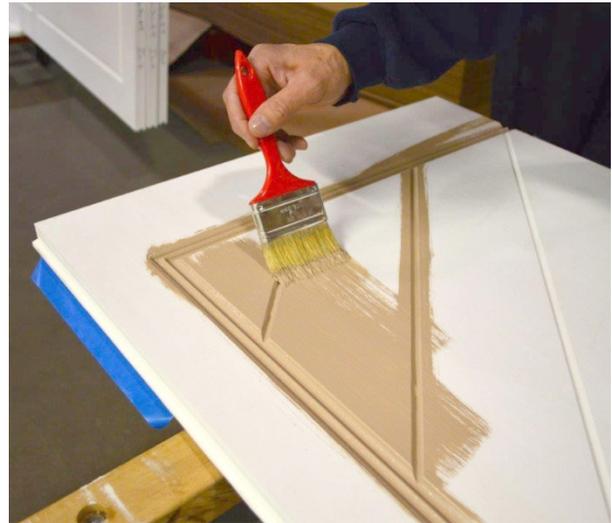
If you choose to spray the D100, you must purchase the sprayable formula and we recommend the following: You may need to reduce the viscosity (thickness) of the coating by adding small amounts of distilled (bottled) water to a maximum of 10 %. Over-diluting will cause the coating to sag (create runs). Using an HVLP process is ideal; the TIP SIZE needs to be around 1.8 mm.

If you chooses this route, always spray a piece of cardboard first to be sure that everything is working properly and the coating is well “atomised” and the fan is well adjusted.

First Coat:

Open the D100 container and stir thoroughly. Work from either the right or left side and if installed vertically from the top down. Apply the coating evenly to the work area starting with the machined areas and then onto the flat surface. While painting the machined areas make sure to smooth any excess paint that could build up on the smooth panel.

(5,6)



Once the desired coverage has been attained on the section surface, extend the coating with smooth light even strokes in a vertical direction in order to minimize runs. Depending upon temperature and humidity conditions the first coat will generally dry within 20 to 90 minutes.

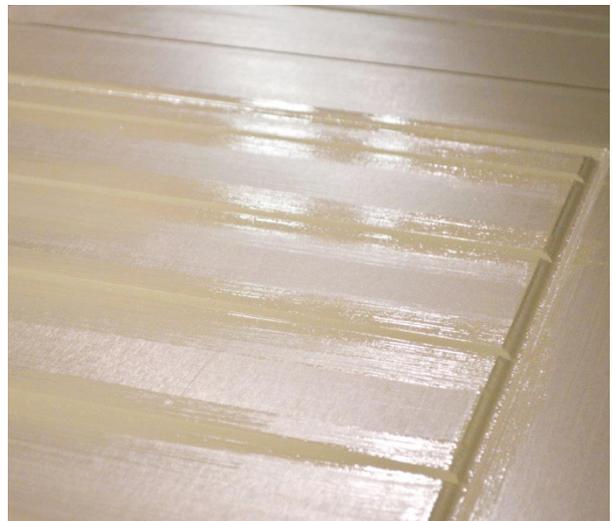


Painting the joint (optional)

Preparation for Second and Third Coats:

Ensure the previous coat of the work area is dry enough that the next coat will apply evenly. (This is sooner when spraying)

IF NECESSARY - Using 600 grit sandpaper lightly sand the section surface (7) to remove any dust/debris particles, runs that are on the surface during drying, or other imperfections. Sand until smooth then lightly dampen a lint free rag with water and wipe the entire work area to remove the sanding dust. If accessible use an air gun to blow off any residual dust before application.



Allow the surface to air dry a few minutes then prepare to apply the second or third coat. If the container of D100 has been left unused for an extended period of time it is suggested to stir it prior to use. Apply coating as per first coat instructions.

Congratulations, you are done! (8)

Storage and Disposal:

AquaSurTech D100 can be stored at room temperature for up to one or two years. Ensure the containers are closed tightly. D100 is an environmentally safe water based coating. No chemicals are required for cleaning or thinning. Follow local laws & regulations for proper disposal.

Maintenance:

Your project is now complete and its beautiful appearance can be maintained simply by washing the surface as needed with a mild soap & water mixture. Use leftover D100 for touching up or repair of scratches.

Safety:

Further information & MSDS sheets for AquaSurTech D100 and AquaSurTech VinylPrep cleaner can be found on our website by visiting us at www.aqua-diy.com



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