

Waterborne Tech Tip Application in Extreme Conditions

When conditions change, what do I do?

When it's hot and humid?

When it's hot and dry?

When the weather conditions are somewhere in between?

Below you will find some answers to these questions to help you maintain the high level of productivity expected when spraying ENVIROBASE® High Performance waterborne basecoat.

High Temp and High Humidity (100°F+ / ≥50% R.H.) (Drying Too Slow)

- The best approach is to apply less material per coat.
- Increased air pressure which will give finer basecoat particle atomization.
- Increase the gun distance with less overlap or possibly consider changing fluid tips to a slightly small size i.e. 1.4 to a 1.2 mm.
- Viscosity may also be adjusted to the lower side or between 23 - 25 sec, DIN4 which will give a thinner application.
These changes may require you to apply an additional coat of color, when each layer applied thinner, it will flash off faster therefore shortening the refinish time.

High Temp and Medium Humidity (100°F+ / 30-50% R.H.) (Drying Fast)

- The best approach is to apply more material per coat.
- Decreasing air pressure which will give larger and wetter particle atomization.
- Decrease the gun distance and / or increase the overlap.
- Changing fluid tips to a slightly larger tip size i.e. 1.2 to a 1.4 mm.
- When humidity is less than 30%, use slow basecoat thinner T595
- Viscosity may also be adjusted to the higher side or between 25 - 28 sec, DIN4 which will also give a wetter application.
These modifications will allow the basecoat to be applied wetter and will improve overall color and control coat application.

High Temp and Low Humidity (100°F+ / ≤30% R.H.) (Drying Very Fast)

- The best approach is to apply more material per coat.
- Decreasing air pressure which will give larger particle atomization and wetter application. Decrease the gun distance and / or increase the overlap.
- Changing the fluid tip to a slightly larger size i.e. 1.2 to a 1.4 mm.
- Use slow basecoat thinner T595.
- Viscosity may also be adjusted to the higher side or between 25 - 28 sec, DIN4 which will also give a wetter application under these conditions.
These modifications will allow the basecoat to be applied wetter and will improve overall color and control coat application.

Note: Higher temperatures will reduce the viscosity; therefore, less reducer may be needed to achieve optimal application. The above recommendations can be very helpful to improve application in extreme conditions and keeping the size of repair in mind, however it is not necessarily recommended to make all changes to all scenarios. Single small adjustments should be made to verify what makes the most improvement for you. Whenever making any adjustments to equipment, viscosity or just your technique for improved application in extreme conditions, be sure to record your starting point so you may go back to it when your conditions return to normal.