

68R-CA Series (VOC Compliant)

Spray Safe Dry-Fall Aliphatic Urethane Topcoat



68R-CA Series is a high performance 2-K aliphatic urethane topcoat designed to be powder dry within 10-20 feet from the point of application, allowing painting to continue without the worry of overspray damage to nearby vehicles or equipment. 68R-CA Series offers the perfect combination of color purity, flexibility, and UV & corrosion protection even when exposed to a variety of harsh climatic and chemical environments. This product meets SSPC-Paint 36 specifications for 2-K weatherable aliphatic urethanes. 68R-CA is specifically formulated to meet VOC requirements in California.

Tech Specs

Heat Resistance:	For Ambient Services Only
Vehicle Type:	Aliphatic Urethane
Reducer:	No Reduction Necessary
In Summer if desired:	Highland #30-E Reducer
In Winter if desired:	Highland #32-E Reducer
To Maintain Wed Edge:	Highland #36-E Reducer
Mix Ratio:	4:1 Base to Activator
Base:	68R-CA-####
Activator:	68R-CA-100
Pot Life:	N/A
Volume Solids:	45%
Theoretical Coverage:	721ft ² /gal. @ 1 mil DFT
VOC:	<250 g/L
Flash Point:	-4°F (Lowest Flashing Component)
Dry Film Thickness:	2-3 mils DFT

Wet Film Thickness:	4.4-6.6 mils WFT
Dry-time:	Normal
To Touch:	10-15 Minutes
Tack Free:	1 Hour
To Recoat:	1 Hour
Complete cure:	5-7 Days
Put in Service:	12 Hours
Shelf Life:	2 Years Minimum
Finish:	Gloss, Semi-Gloss, Satin
Color:	Standard & Custom Colors
Packaging:	5 Gallon Kits
Storage Temperature:	20°F - 110°F
Application Temperature:	
Ambient:	45°F Minimum
Substrate:	40°F - 100°F

Surface Preparation

All surfaces should be clean, dry and free of all foreign contaminants. Apply over Highland approved primer. Consult Highland technical data sheet for recoat windows on approved primer before application. See typical systems for primer options.

Mixing & Application

Mixing : Highland 68R-CA Series needs to be thoroughly mixed using mechanical agitation. Mix 1 Part "A" Activator (68R-CA-100) with 4 Parts "B" Base (68R-CA-####). Allow a 5 minute induction period before reduction.

Reduction: No reduction is necessary to achieve Dry-Fall properties. If desired, reduce up to 5% with one of the following Highland VOC Exempt Reducers:

#30-E Highland Warm Weather Dry-Fall Reducer for temperatures 80°F and above

#32-E Highland Cold Weather Dry-Fall Reducer for temperatures below 80°F

36-E Highland Blending Reducer may be used for extremely hot temperatures (90 °F), to help overspray blend in. (Do not exceed 5%)

Note: If “Fingering” occurs during the spray application, increase the amount of thinner which will decrease the viscosity of the coating. Do not increase the pump pressure. Maintain 1800 psi allowing +/- 25 psi for surges.

To assure Dry-Fall effect, do not apply in temperatures below 45°F, on surfaces below 40°F, or humidity above 85% Rh. Make sure the equipment being used will give accurate psi readings so the pressure from the pump can be maintained at 1800 psi allowing a maximum +/- 25 psi for surges. Do not apply in temperatures that are 5°F or less from the dew point. Whip lines are not allowed unless they are 3/8 inch ID. Swivels are acceptable.

Highland 68R-CA Series is designed for spray application. To ensure optimal performance, apply according to the following recommendations.

Airless

Gun: Graco 205-591 (or equivalent)

Pressure: Apply at 1800psi allowing +/- 25 psi for surges.

Tip sizes: 3.011 – 5.011

Airless Pumps: 30:1, 45:1, 60:1

Hose: 3/8 inch ID

Brush or Roller: Both are acceptable – Requires reduction with Highland #105 Brush & Roll Reducer.

Clean Up: Clean all equipment with Highland #901 Cleaning Solvent

Typical Systems

Highland 68R-CA Series may applied over with variety of Highland primers:

Apply 1 coat of 68R-CA Series at 2-3 mils DFT over one of the following options.

475R-CA Series Primer VOC Compliant Dry-Fall 2K Epoxy Primer

84-DF Series Primer Dry-Fall Phenolic Modified Alkyd Primer

97 Series Primer Non Dry-Fall Epoxy Mastic Primer

Highland 68R-CA Series may be topcoated with a wide variety of topcoats. For more options please call your Highland representative.

Safety Information

- Use normal precautions such as gloves, facemasks and barrier creams.
- Adequate ventilation must be maintained. In confined areas, applicators must wear constant flow airline respirators.
- If product comes into contact with skin, wash thoroughly with lukewarm water or diluted Boric Acid, and obtain immediate medical attention.
- This product contains FLAMMABLE materials. Keep away from sparks and open flames. Observe NO SMOKING regulations.
- All electrical equipment and installations should conform to NEC regulations. In areas where explosion hazards exist, applicators should be required to use nonferrous tools, and to wear conductive, non sparking shoes.
- Observe low flash regulations.
- Refer to Safety Data Sheet (SDS) for complete safety instruction