

10-RF Series

HiReflect 1K Polyurethane Reflective Coating



HiReflect is a revolutionary water-based polyurethane coating that imparts a reflective effect to virtually any surface. This reflective effect is an optical phenomenon in which rays of light are preferentially sent back towards the light source in a very narrow cone, as opposed to allowing the light to reflect diffusely, in all directions. The net effect of this very focused reflection of light is a highly visible surface, even when minimal diffuse light is available from the source (think road signs at night, but brighter!). Imparting the latest technology in reflective materials into a durable UV resistant water-based polyurethane, HiReflect is an ideal solution for adding nighttime visibility to almost any material (painted surfaces, plastic, wood, rubber, metal, fabrics) with a minimal effect on its appearance. HiReflect can be applied via spray or brush/roller and is also available in convenient aerosols.

Tech Specs

Heat Resistance:	For Ambient Services Only
Vehicle Type:	1K Water-based Polyurethane
Reducer:	Not Normally Required;
If Desired:	Use Potable Water
Mix Ratio:	Single Package
Pot Life:	N/A
Volume Solids:	30%
Theoretical Coverage:	601-962ft ² /gal. @ 0.5-0.8 mil
VOC:	<50 g/L
Flash Point:	Not Applicable
Dry Film Thickness:	0.5-0.8 mils DFT

Wet Film Thickness:	1.7-2.3 mils WFT
Dry-time:	@ 77°F
To Touch:	15 Minutes
Tack Free:	30 Minutes
To Recoat:	30 Minutes
Full Cure:	48 Hours
Shelf Life:	1 Year Minimum
Finish:	Matte
Color:	Translucent Gray
Packaging:	Quarts, Gallons, Pails, Aerosols
Storage Temperature:	20°F - 110°F

Surface Preparation

All surfaces must be clean, dry, and free of grease, oil, loose rust, and foreign contaminants. Degrease with denatured alcohol before and after abrading surfaces. Lightly abrade with 320-400 grit sandpaper or scour pad to remove gloss. **OVERSPRAY WILL BE REFLECTIVE** - mask off surrounding areas accordingly.

Application

The specialized reflective beads in HiReflect are very dense and may settle in container. Stir or agitate container until completely uniform and free from material on bottom or sides of container. Maintain intermittent agitation during application. **DO NOT THIN.**

Aerosol: Agitate cans until marble can be heard moving freely, continue agitating for 1 minute. Agitate can routinely during application. Spray apply in one light uniform coat, keeping nozzle 12-18" away from surface. Be careful not to apply too heavy as thick films can diminish reflective properties.

Brush & Roll: Use high density foam roller covers and brushes. Apply in one thin, uniform coat being careful not to allow any runs, sags, or puddling.

Conventional Spray: HiReflect may be spray applied using conventional siphon, gravity fed, and pressure pots. Spray apply in one light uniform coat, keeping gun tip 12-18" away from surface. Be careful not to apply too heavy as thick films can diminish reflective properties.

Due to the wide variety of spray application equipment and conditions, contact your Highland Representative with specific spray application instructions, especially for large areas.

Clean brushes and spray equipment with potable water. Use acetone or denatured alcohol as necessary.

Safety Information

Refer to Safety Data Sheet (SDS) for complete safety instructions.