

77-BR Series

HiGrip 2 Component Primer/DTM



HiGrip 77-BR Series is a 2 component epoxy specifically formulated to alleviate extensive surface preparation. It may be applied over minimally prepared surfaces (rusty steel and deteriorated previously painted surfaces). HiGrip dries to a flat finish that may be applied up to 6 dry mils per coat. A complex rust inhibitor and resin system serves to assure excellent corrosion protection and adhesion. HiGrip 77- BR Series also serves as an excellent tie-coat between Highland zinc-rich primers and Highland topcoats. With the proper reducer selection, it can be applied directly to hot surfaces up 175°F or with proper application technique, may be applied over active condensation. It may be topcoated with Highland alkyds, silicone alkyds, acrylics, epoxies, and urethanes.

Tech Specs

Heat Resistance:	200°F Constant
Vehicle Type:	Polyamide Adduct Epoxy
Reducer:	Not Normally Required
Hot Application:	101A Hot Application Reducer
Mix Ratio:	1:1 Base to Activator
Base:	77-BR-####
Activator:	77-ABR-100
Pot Life:	6 Hours @ 77°F (Decreases in higher temperatures)
Volume Solids:	55%
Theoretical Coverage:	882ft ² /gal. @ 1 mil DFT
VOC:	<331 g/L (<2.76 lbs/mixed gal.)
Flash Point:	54°F (Lowest Flashing Component)
Dry Film Thickness:	2-3 mils DFT for normal conditions 4-6 mils DFT for immersion or other severe conditions.

Wet Film Thickness:	3.6-10.9 mils WFT
Dry-time:	Normal
To Touch:	3-4 Hours
Tack Free:	4 Hours
To Recoat:	3 Hours
To Handle:	6-8 Hours
Put in Service:	12 Hours
Shelf Life:	2 Years Minimum
Finish:	Flat
Color:	Standard & Custom
Packaging:	10 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. A SSPC-SP1 Solvent Cleaning with Highland 901 Cleaning Solvent is recommended before blasting or other cleaning method.

Carbon Steel - Immersion:

Obtain a 2-3 mil angular blast profile using one of the recommended methods below.

Best: A SSPC-SP5/NACE 1 White Metal Blast Cleaning is recommended for maximum coating performance and longevity.

Good: A SSPC-SP10/NACE 2 Near White Metal Blast Cleaning provides good results.

Carbon Steel - Non-Immersion:

Obtain a 2-3 mil angular blast profile using one of the recommended methods below.

Best: A SSPC-SP6/NACE 3 Commercial Blast Cleaning provides good results.

Good: A SSPC-SP3 Power Tool Cleaning, SSPC-SP2 Hand Tool Cleaning, or waterjetting per SSPC-SP 12 to WJ-4 will provide good results.

Galvanized Steel:

Contact a Highland representative as recommendation will vary depending on substrate and exposure conditions.

Mixing & Application

Mixing: Highland 77-BR Series needs to be thoroughly mixed using mechanical agitation. Mix entire contents of Part "A" Activator (77-ABR-100) with Part "B" Base (77-BR-####) (1:1 by volume). Mixed material is ready for use after a 30 minute induction period.

Reduction: Reduction is not required for standard applications.

Hot Application: For Hot Application on surfaces up to 175 °F, reduce 5% with Highland 101A Hot Application Reducer immediately after the 30 minute induction period.

For Hot Application, apply in multiple coats at 1.5 to 2.0 mils DFT per coat (max) to achieve the desired total DFT. Wait 1 hour between coats and no longer than 24 hours between coats.

Highland 77-BR Series is designed for brush or roller application. To ensure optimal performance, apply according to recommendations below.

Brush or Roller: Natural or synthetic bristle

Clean Up: Highland #901 Cleaning Solvent

Typical Systems

Highland 77-BR Series may be topcoated with a variety of Highland Topcoats:

Apply 1 coat of 77 Series at 2-3 mils DFT as a primer then topcoat with one of the following options.

36 BR Series Topcoat	Ultra-High gloss brush & roll 2K urethane
150BR Series Topcoat	High gloss brush & roll single component alkyd
200-BR Series Topcoat	High gloss, high build brush & roll, quick dry alkyd
875 Series Topcoat	High gloss brush & roll single component silicone alkyd

Highland 77-BR Series may be topcoated with a variety of Highland Topcoats. Contact your Highland representative for more details.

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

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