

Built for flexibility
and toughness



PPG SPECTRACRON® SPU9000 BHS Gen 2
2K high-solids polyurethane topcoat



We protect and beautify the world®



Fast-drying, UV-resistant protection for heavy-duty vehicles, equipment and enclosures

Spectracron SPU9000 BHS Gen 2 is a two-component, high-solids polyurethane topcoat that improves upon its predecessor by offering brighter color, enhanced weatherability, a broader application window, reduced odor, and improved sag resistance. Specifically formulated without carcinogenic substances, this innovation meets the most stringent OEM specifications for durability, flexibility and resilience on metal and plastic parts.

Spectracron SPU9000 BHS topcoat delivers a super-smooth finish and is compatible with multiple primers and hardeners, each designed to provide distinct performance features for true process customization. It can be applied using conventional spray guns, air-assisted systems and other common application methods, drying quickly at room temperature or via thermal curing.

Suggested industries

Vehicles and equipment

General industrial

Suggested end uses

Agricultural equipment

Heavy-duty machinery

Metal enclosures

The PPG Benefit



Long-lasting protection with excellent hardness and abrasion resistance



High-flexibility film engineered to protect sharp angles and edges



Available in a wide range of colors, from matte to high gloss



Outstanding resistance to UV radiation/weathering for long-lasting color



Specifically formulated without carcinogenic substances or PFAS

Customizable coating system with a broad range of compatible primers and hardeners

Spectracron SPU9000 BHS Gen 2 topcoat is recommended for use over *Spectracron* SPR5000 or SPR9000 series primers. All primers in this line provide outstanding chip and corrosion protection with unique secondary performance enhancements that complement your production workflow and needs.

Primers*	Codes	Features
<i>Spectracron</i> SPR5000	SPR63 series	High film build
	SPR64 series	Fast wet-on-wet application
<i>Spectracron</i> SPR9000	SPR53 series	Both: Lower VOC and high performance
	SPR9 series	SPR53: High film build SPR9: Multi-substrate capable**

The hardeners offer solids content options that affect performance and drying time.

Hardeners	Codes	Solids Content
Very High Solids (VHS)	GXH72000	81-83%: high flexibility and overall performance
	GXH1080	77-80%: common hardener with SPR9
High Solids (HS)	GXH72136 Standard Dry	71-73%: balanced coverage and cost
	GXH72138 Fast Dry	
Medium Solids (MS)	GXH72639 France/Europe	59-61%: optimum cost per liter
	GXH72987 UK Only	

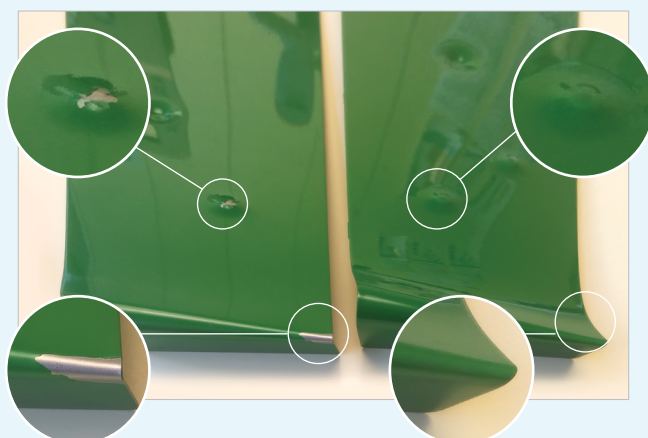
* *Spectracron* SPU9000 BHS Gen 2 topcoats requires the use of a compatible primer.

** For more information, please contact your PPG representative.



Built for flexibility and toughness

The tough, flexible film of the *Spectracron* SPU9000 BHS Gen 2 topcoat outperforms competing products in both conical mandrel bend and direct impact resistance tests.



Competitor Topcoat

Coating ruptures at bend and impact points

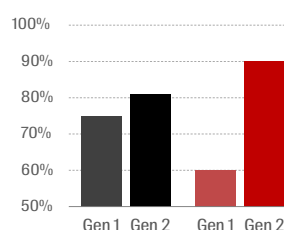
Spectracron SPU9000 BHS Gen 2 Topcoat

Coating maintains integrity at bend and impact points

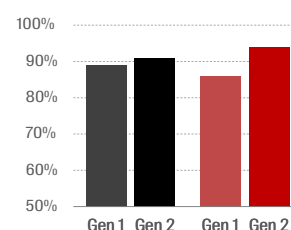
Improved gloss and color retention

After 2,400 hours of WEATHER-OMETER® testing on red and black coating samples, the *Spectracron* SPU9000 BHS Gen 2 topcoat demonstrated better performance in both gloss and color retention compared to our previous Gen 1 formulation.

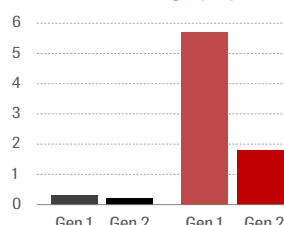
Gloss Retention at 20°C



Gloss Retention at 60°C



Color change (ΔE)



▲ *Spectracron* SPU9000 BHS Gen 2 topcoat retains more gloss than its predecessor.

◀ When assessing color change, a higher value indicates greater fading and color loss. *Spectracron* SPU9000 BHS Gen 2 topcoat demonstrates enhanced color retention, particularly with more vibrant and intense hues.

PPG Intermix tinting solution

Spectracron SPU9000 BHS Gen 2 topcoat is available in a wide range of finish colors. With PPG's Intermix tinting solution, you or PPG can quickly and easily mix small batches in the exact color you need:

- Obtain consistent, unlimited colors quickly and easily
- Desired packaging and quantities
- Quick color and gloss customization based on your standards
- Good hiding power and coverage
- Wide variety of volumes

Contact your local PPG representative for additional details.



Spectracron SPU9000 BHS Gen 2 topcoat performance



Product Characteristics	Test Standard	Result
Color	–	Multiple
Gloss at 60°C (140°F)	ASTM D523	50 – 90+
Volatile Organic Compounds (VOC)*	ISO 11890-1:2007 Method 2	< 420 g/L with GXH72136/38 hardener
Applications	–	Pre-primed metal and plastic substrates

Performance Properties**		
Xenon Arc <i>Weather-Ometer</i> * (2,400 hours)	SAE J2527	>45% gloss retention at 20°C (68°F) >75% gloss retention at 60°C (140°F) $\Delta E < 5$
Conical Mandrel	ASTM D522	Pass, 8 mm, no cracks
Impact Resistance	ASTM D2794	Direct: ≥ 40 in./lbs. Indirect: ≥ 20 in./lbs.
Hardness	ASTM D3363	2H
Chemical Resistance	ASTM D1308	Distilled water: Immersion, 96 hours at 25°C (77°F) Trisodium phosphate: Immersion 3' at 82°C (180°F) Engine Coolant: Spot, 24 hours at 23°C (73°F) Engine oil: Spot, 24 hours at 23°C (73°F) Transmission oil: Spot, 24 hours at 23°C (73°F) Diesel fuel: Spot, 24 hours at 23°C (73°F) Unleaded gasoline: Spot, 24 hours at 23°C (73°F)

* Results will vary based on pigment package used to obtain specific colors.

** All tests performed using iron-phosphate pretreated cold-rolled steel, *Spectracron* SPR5000 SPR64 2K epoxy primer and *Spectracron* SPU9000 BHS Gen 2 topcoat with HS GXH72136 hardener.

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