

Comparative Analysis: Tribos vs Boron-Graphene Automotive Paint Coatings

This document provides a detailed comparative analysis between Tribos Automotive Coatings and Boron-Graphene Automotive Paint Coatings. Each key feature is compared with a clear indication of which technology holds the advantage.

Feature-by-Feature Comparison

Feature	Tribos vs Boron-Graphene	Advantage
Surface Bonding Mechanism	Tribos bonds chemically at the molecular level, Boron-Graphene bonds physically and ionically and has been known to “flake off”	Tribos
Flexibility and Crack Resistance	Tribos remains flexible and non-brittle; Boron-Graphene is hard but brittle and can form tiny cracks if the surface flexes.	Tribos
Gloss and Visual Realism	Tribos preserves original paint finish looking like it was naturally applied; Boron-Graphene may appear overtly glassy.	Depends on user – Tribos looks more natural. Boro-Graphene glassier.
Durability Under Harsh Conditions	Tribos wears predictably; Boron-Graphene offers high resistance to UV and chemicals.	Boron-Graphene
Ease of Removal or Reapplication	Tribos is easily removed by using polishing abrasives; Boron-Graphene may require heavy abrasion to remove	Tribos slight advantage
Thickness and Compatibility with Fine Paintwork	Tribos is ultra-thin and safe on delicate finishes; Boron-Graphene is a thicker coating.	Depends on what user prefers
Application Process	Tribos is much easier to apply and cures fully and naturally within 48 hours; Boron-Graphene requires precision in application and requires heat-lamps to fully cure. Tribos is not completely vulnerable from 2 hours after application, whereas B-G is completely vulnerable until fully cured	Tribos- major advantage
Hydrophobicity and Self-cleaning	Both provide excellent hydrophobicity.	Draw
Repairability	Tribos is spot-maintainable – can repair or touch-up small / large areas; Boron-	Tribos – Major advantage

	Graphene requires entire panel re-coating for any problems	
Thermal Stability	Tribos is stable under normal conditions; Boron-Graphene withstands extreme heat up to 750° Centigrade	Boron-Graphene

Conclusion

While Boron-Graphene coatings excel in extreme durability and heat resistance, Tribos coatings provide a more practical and versatile solution for everyday automotive applications. Their ease of application, realistic finish, flexibility, and safety make them highly suitable for preserving the quality and appearance of automotive paint over time.