

Eastman **TETRASHIELD™**  
protective resin systems



**EASTMAN**



# Tetrashield resins create automotive coatings that **protect**.

Through groundbreaking weathering, chemical resistance, and hardness, Eastman Tetrashield™ protective resin systems make coatings more durable. By enabling low-VOC formulations and eliminating energy-intensive manufacturing steps, they protect people and our planet. Eastman has a long history of developing innovative polymers to solve the toughest problems, and our latest innovation of Tetrashield protective resin systems continues this legacy.

## **Durability**

Tetrashield can achieve superior weathering in formulated paints. In lab tests, Tetrashield-based coatings show a 2x improvement in weathering and UV stability with a better balance of hardness and flexibility when compared to non-Tetrashield-based coatings. Additionally, coatings formulated with Tetrashield improve chemical, scratch, and mar resistance.

## **Productivity**

Tetrashield has excellent solubility properties and can be formulated at higher solids levels while maintaining excellent application parameters. This allows more efficient film build, faster film drying, and ultimately a more efficient coating process. Also, in some applications, Tetrashield's exceptional hardness and UV stability enable layer reduction, increasing throughput and reducing cost.

## **Sustainability**

Lab tests show that coatings formulated with Eastman Tetrashield protective resin systems enable formulators to maintain performance with lower concentrations of volatile organic compounds (VOC). This means coatings can be formulated to higher solids levels, enabling more efficient film build with better mar resistance over the service life of the coating and supporting compliance with environmental regulations while also expanding performance levels.

## **OEM and formulator benefits of Tetrashield solventborne systems**

High-solids systems formulated with Tetrashield resins deliver ultradurable, compliant coatings.

### **OEM benefits**

- Increased productivity and reduced cycle times
- 2x improvement in weatherability
- Up to 2x improvement in scratch and mar resistance

### **Formulator benefits**

- Meet emerging regulations without sacrificing performance or durability
- 8%–15% improvement in paint application solids (lower VOC) at application viscosity

To help ensure formulators get the best performance from Tetrashield resins, Eastman provides industry leading technical service and starting point formulations.

## Proven performance of Tetrashield in high-solids, solventborne automotive coatings

Tetrashield resins make coatings that protect. Their superior performance in mar and scratch resistance and weathering can be seen in Figures 1–3.\*

Figure 1. Mar resistance

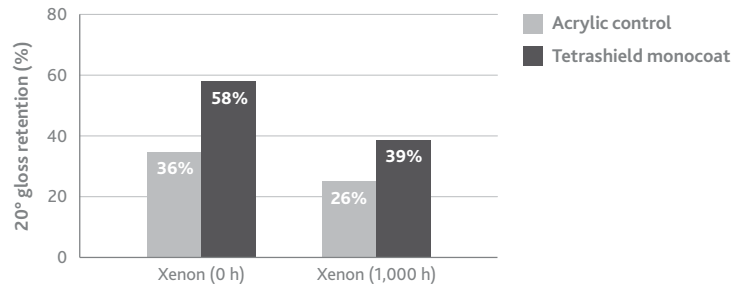


Figure 2. Scratch resistance

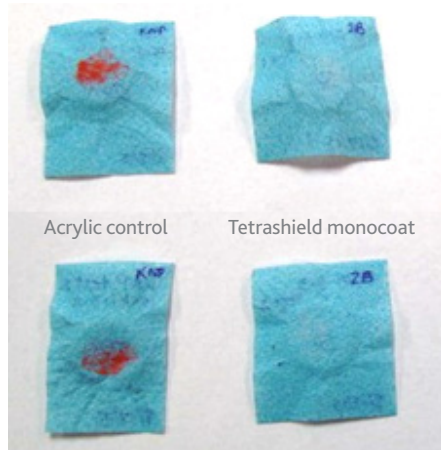
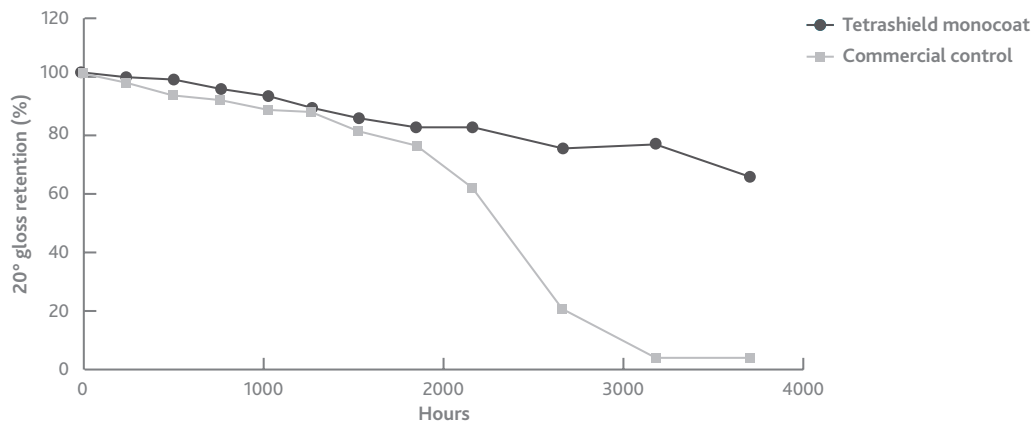


Figure 3. Xenon arc weathering data (JAE 2527)



Tetrashield AC1001 improves the performance of both clear coats and pigmented topcoats while reducing environmental impact and optimizing the coating process. Your reputation lasts only as long as your coating does. In a world where the environment is tough on automotive coatings—and consumers are tough critics—protect your brand with Tetrashield protective resin systems.

\* Performance results are formulation dependent.



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