COATINGS & PERFORMANCE MONOMERS

OPTI-MATT™ MT-8

100% Acrylic Emulsion For Durable Performance Across Specialty Architectural Coatings

OPTI-MATT™ MT-8 Extender is a 100% acrylic, non-film forming emulsion designed to replace inorganic extenders in a variety of coating formulations It is targeted to impart scuff and mar resistance and color transfer resistance as the primary performance benefits. These benefits, along with specialized resistance properties such as hot tire pickup resistance and abrasion resistance, make it especially recommended for use in specialty architectural coatings, including water-based garage floor coatings, solid color wood stains, clear concrete sealers, sports surface coatings, and more.

When OPTI-MATT™ MT-8 Extender is used as the sole extender in a broad wall formula, the primary scuff, mar, and color transfer resistance benefits are observed. Additionally, tint retention and crack resistance benefits can be observed in exterior clear and deep-base formulas. In the specialty coating formulations, OPTI-MATT™ MT-8 Extender displays performance benefits even when blended with inorganic extenders in the formulation.

Performance Attributes

- Supports excellent scuff and mar resistance, helping to maintain surface appearance even in high-traffic high-touch environments
- Reduces color transfer, helping prevent colorants from rubbing off onto clothing and other materials
- Improves hot tire pickup resistance, abrasion resistance, and other key performance properties in specialty architectural formulation spaces

Formulation Versatility

- Compatible with a range of resins, allowing flexible use across various formulations
- Supports formulations ranging from matte to eggshell sheens, providing options for different aesthetic and performance requirements
- Recommended as a sole extender in broad wall applications
- Recommended as a sole extender or blended with inorganic extenders in specialty architectural formulations
- Supports grind-free formulating, simplifying the manufacturing process and potentially reducing production time and costs

Key Properties

Product Name	Chemistry	% Solids	No intentionally added APEO	No intentionally added PFAS	Density (Wet, lbs./gal)
OPTI-MATT™ MT-8 Extender	100% Acrylic Emulsion	~43	Yes	Yes	~8.65

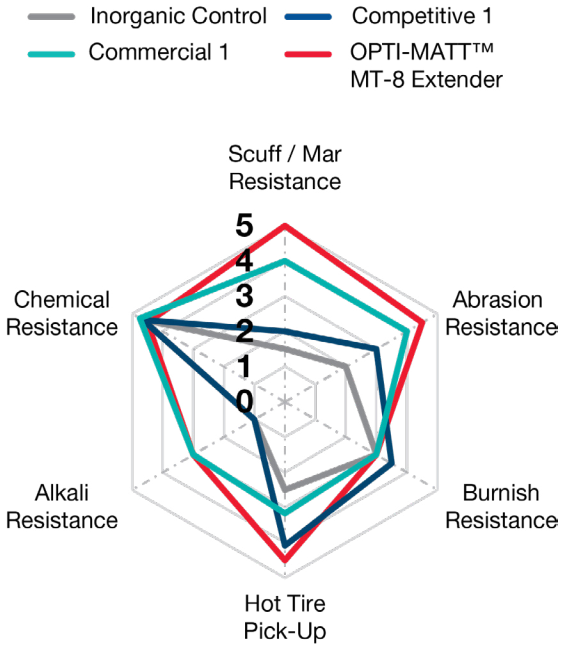
Garage Floor Coatings

Garage floor coatings are designed to protect concrete surfaces exposed to vehicular use, chemicals, and regular foot traffic. These coatings offer a durable, attractive finish that helps extend the service life of residential garage floors while improving ease of maintenance. One-component, water-based systems offer a practical balance of performance and ease of application. Key performance requirements for garage floor coatings include strong adhesion to concrete, resistance to hot tire pickup, resistance to common automotive and household chemical, and durable protection against abrasion and scuffing.

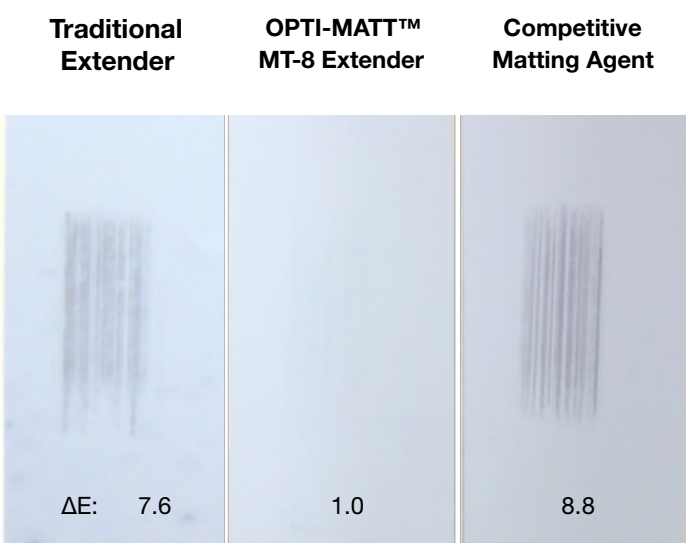
OPTI-MATT™ MT-8 Extender offers improved scuff and mar resistance, abrasion resistance, and hot tire pickup resistance compared to control formulations using traditional extenders.

Test Formulation Details:

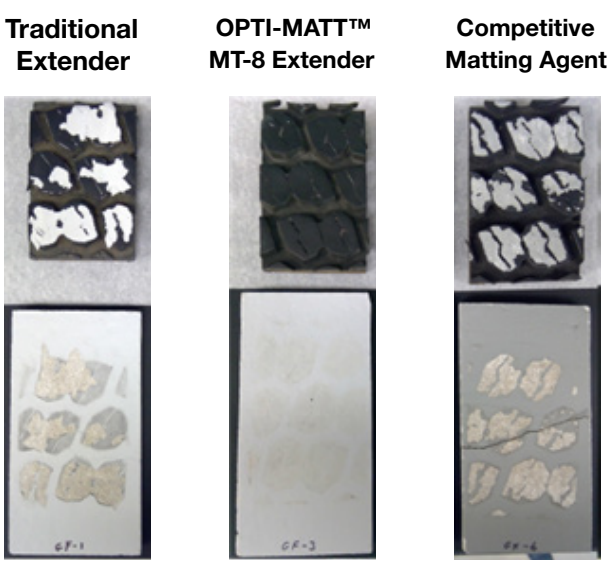
- RHOPLEX™ 2510 100% Acrylic Emulsion
- 36 PVC / 32 VS / <50 g/L VOC Tinted with Colortrend 808-9907 Lamp Black



Scuff and Mar Resistance - Aluminum Medium



Hot Tire Pickup Resistance



Extender Type	Scuff/Mar Resistance	Abrasion Resistance	Adhesion	Hot Tire Pickup Resistance	Slip	Chemical Resistance	Efflorescence	Alkali Resistance	Burnish Resistance
Traditional Extender	■■	■■	■■	■■	■■	■■	■■	■■	■■
OPTI-MATT™ MT-8 Extender	■■■	■■■	■■	■■■	■■■	■■	■■	■■■	■■

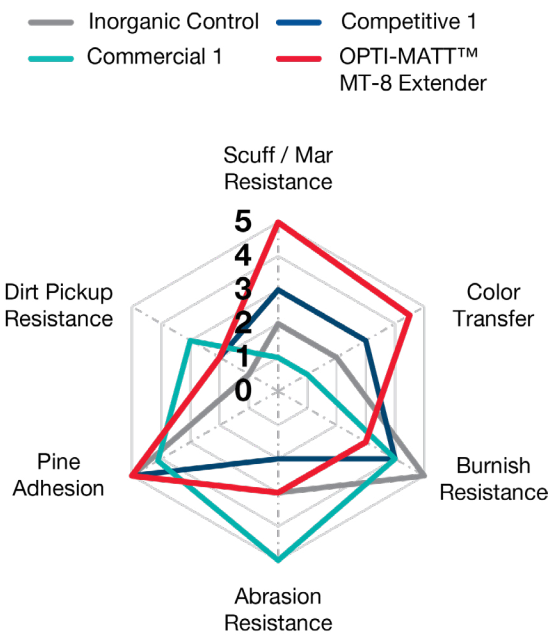
Solid Color Wood Stains

Solid color wood stains are commonly used on moderately weathered or aged wood surfaces where full color coverage is desired without completely masking the wood grain. These coatings must offer strong adhesion to wood, long-lasting protection against weathering and UV exposure, and maintain color and gloss over time, while also resisting dirt and stains to help ensure a durable, long-lasting appearance.

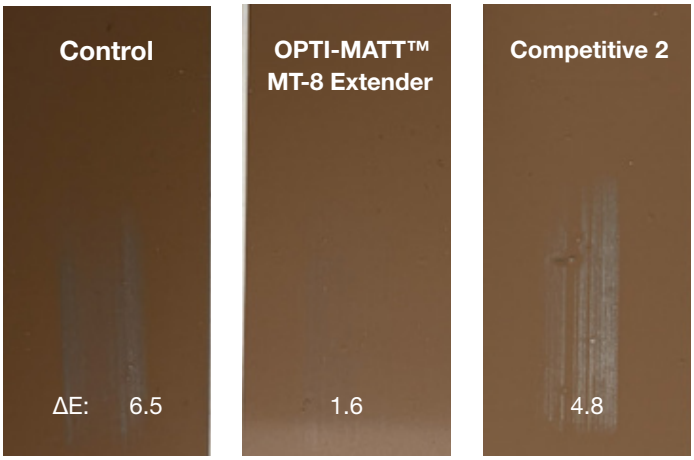
OPTI-MATT™ MT-8 Extender offers improved scuff and mar resistance and reduced color rub in solid color stain formulations compared to equivalent formulations containing inorganic extenders.

Test Formulation Details:

- Test Resin: RHOPLEX™ AC-464 100% Acrylic Emulsion
- 26 PVC / 36 VS / <100 g/L VOC
- Tinted with Colortrend Red Iron Oxide, Colortrend Yellow Oxide, Colortrend Raw Umber, and Colortrend Titanium White

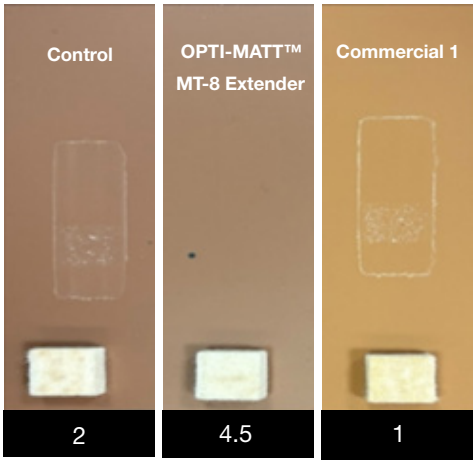


Scuff and Mar Resistance



Lower = Better

Color Transfer Resistance



5 = Best, 0 = Worst

Extender Type	Scuff/Mar Resistance	Abrasion Resistance	Adhesion	Color Transfer Resistance	Dirt Pickup Resistance	Burnish Resistance
Traditional Extender	■■	■■	■■	■■	■■	■■■
OPTI-MATT™ MT-8 Extender	■■■	■■	■■	■■■	■■■	■■

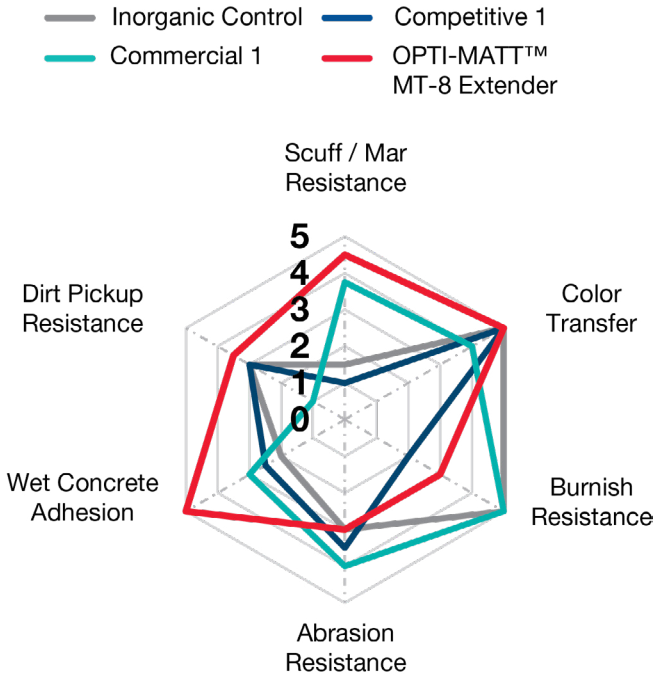
Porch and Patio Coatings

Porch and patio coatings are designed to offer long-lasting performance on high-traffic exterior wood and concrete areas such as porches, patios, decks, basements, and walkways. These coatings are formulated to perform across multiple substrates where durability and appearance are critical. Key benefits include strong adhesion to exterior surfaces, long-lasting durability against wear and foot traffic, enhanced slip resistance for safety, and protection from weathering and UV exposure to help prevent cracking and peeling.

OPTI-MATT™ MT-8 Extender offers improved scuff and mar resistance and enhanced wet concrete adhesion compared to porch and patio coating formulations containing inorganic extenders.

Test Formulation Details:

- Test Resin: RHOPLEX™ AC-464 100% Acrylic Emulsion
- 31 PVC / 35 VS / <50 g/L VOC
- Tinted with Colortrend 808-9907 Lamp Black



Scuff and Mar Resistance - Black Felt Medium

Lower = Better

Extender Type	Scuff/Mar Resistance	Abrasion Resistance	Adhesion	Color Transfer Resistance	Slip	Dirt Pickup Resistance	Chemical Resistance	Efflorescence	Alkali Resistance	Burnish Resistance
Traditional Extender	■■	■■	■■	■■	■■	■■	■■	■■	■■	■■■
OPTI-MATT™ MT-8 Extender	■■■	■■	■■■	■■	■■■	■■■	■■	■■■	■■■	■■

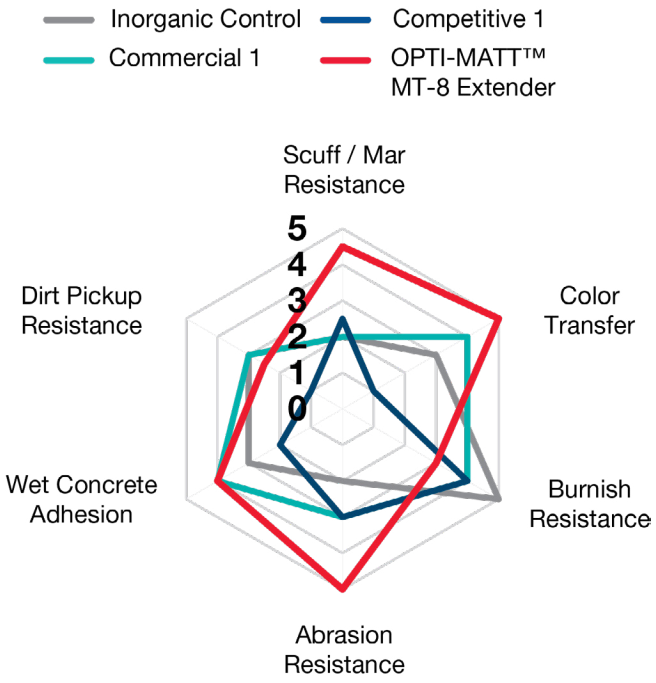
Sports Surface Coatings

Sport court coatings are specifically designed for applications such as concrete and asphalt tennis and pickleball courts. These coatings are required to meet rigorous performance standards, including abrasion resistance, adhesion, and color retention. Exceptional abrasion resistance is necessary to withstand frequent use and the demands of sport and athletic activities. In addition, these coatings must also exhibit excellent UV resistance to preserve color stability under extended sunlight exposure. Strong adhesion to common substrates such as concrete or asphalt is also essential to prevent blistering and offer long-term durability of the coating.

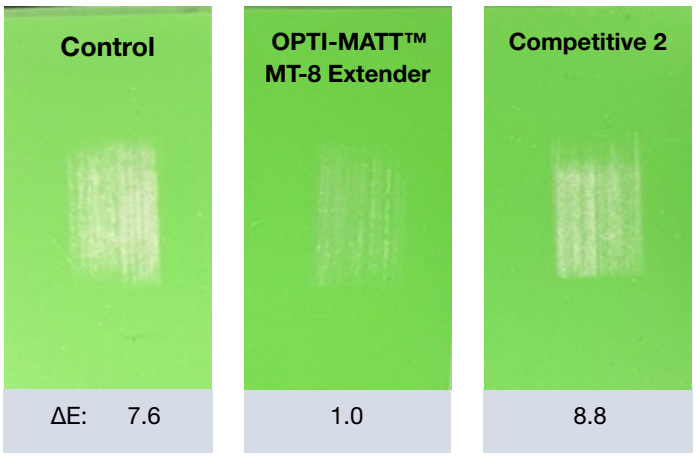
OPTI-MATT™ MT-8 Extender offers improved scuff and mar resistance and reduced color transfer compared to coatings formulated with traditional extenders.

Test Formulation Details:

- Test Resin: RHOPLEX™ 585 100% Acrylic Emulsion
- 35 PVC / 37 VS / <50 g/L VOC
- Tinted with Chrome Oxide Green



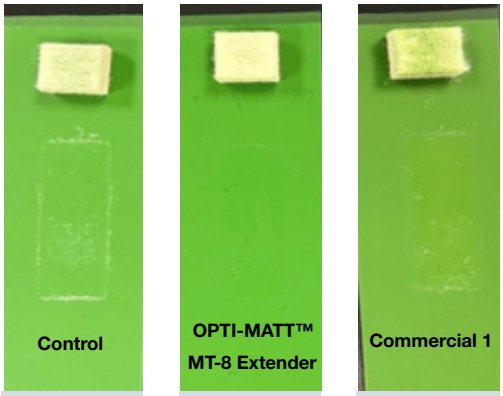
Scuff and Mar Resistance – Aluminum Medium



ΔE: 7.6	1.0	8.8

Lower = Better

Color Transfer Resistance



3	5	1

5 = Best, 0 = Worst

Extender Type	Scuff/Mar Resistance	Abrasion Resistance	Adhesion	Color Transfer Resistance	Slip	Dirt Pickup Resistance	Chemical Resistance	Efflorescence	Alkali Resistance	Burnish Resistance
Traditional Extender	■■	■■	■■	■■	■■	■■	■■	■■	■■	■■■
OPTI-MATT™ MT-8 Extender	■■■	■■■	■■■	■■■	■■■	■■	■■	■■	■■	■■

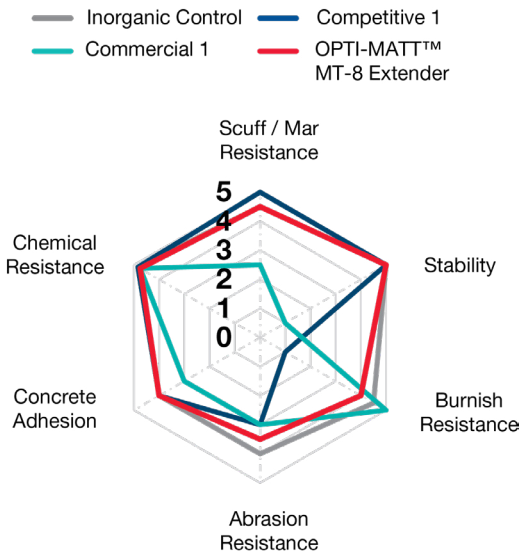
Clear Concrete Sealers

Clear concrete sealers are designed to protect concrete surfaces while maintaining their natural appearance or enhancing their visual appeal. These coatings form a protective barrier that helps shield concrete from moisture, stains, chemicals, and weathering, making them a good choice for both interior and exterior applications.

OPTI-MATT™ MT-8 100% Extender provides excellent matting efficiency and stability while maintaining key performance properties comparable to a control concrete sealer formulation.

Test Formulation Details:

- Test Resin: RHOPLEX™ 2510 100% Acrylic Emulsion
- 15 PVC / 25 VS / <100 g/L VOC (Control formula is 0 PVC)
- Not tinted



Scuff and Mar Resistance – Aluminum Medium

Control Formulation

OPTI-MATT™ MT-8 Extender

Competitive Matting Agent

Extender Type	Scuff/Mar Resistance	Abrasion Resistance	Adhesion	Chemical Resistance	Burnish Resistance
Traditional Extender	■■	■■	■■	■■	■■
OPTI-MATT™ MT-8 Extender	■■	■■	■■	■■	■■

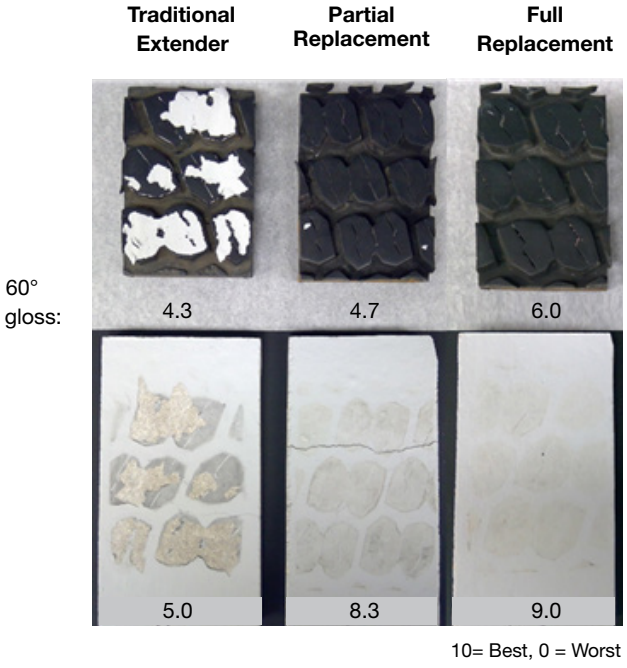
Blending OPTI-MATT™ MT-8 Extender with Inorganic Extenders

OPTI-MATT™ MT-8 Extender offers measurable performance benefits both as a full replacement for traditional inorganic extenders and when used in blended systems. This versatility gives formulators the flexibility to achieve PVC or gloss-matching targets while maintaining—or enhancing—key coating properties.

Across multiple specialty applications, including garage floor coatings, solid color wood stains, porch and patio coatings, and sports surface coatings, OPTI-MATT™ MT-8 Extender has demonstrated strong performance in critical durability metrics such as scuff and mar resistance, color transfer resistance, and hot tire pick-up resistance. These benefits are observed with both partial and full replacement strategies.

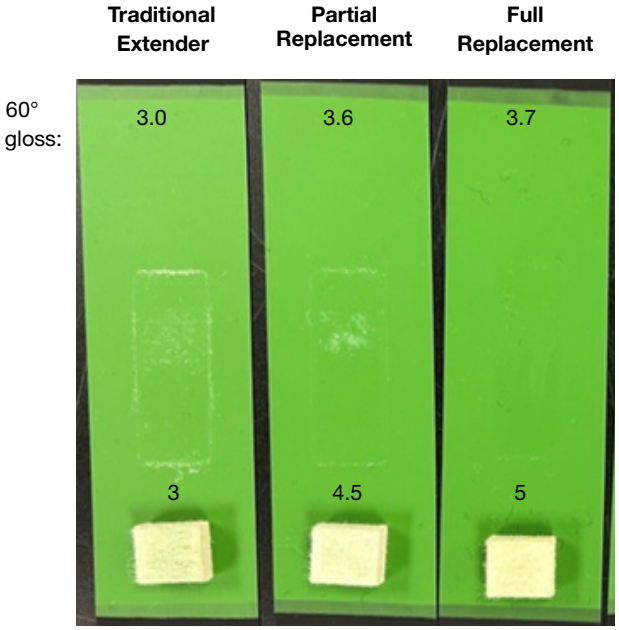
Importantly, performance advantages are retained even when OPTI-MATT™ MT-8 Extender is blended with traditional inorganic extenders. This allows formulators greater design freedom to optimize appearance and formulation targets without compromising durability or aesthetics.

Hot Tire Pick Up Resistance – Garage Floor



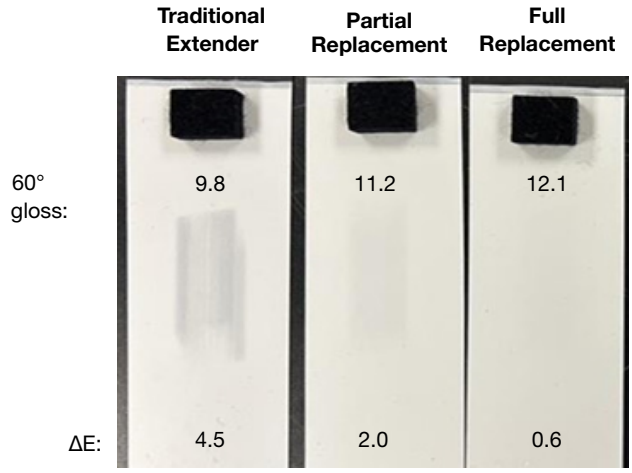
10= Best, 0 = Worst

Color Transfer Resistance – Sport Surfaces



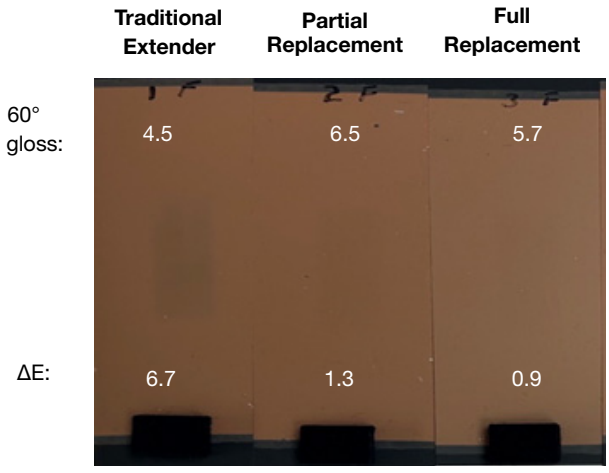
5 = Best, 0 = Worst

Hot Tire Pick Up Resistance – Porch & Patio



Lower - Better

Color Transfer Resistance – Solid Wood Stains



Lower - Better

About Dow

Dow (NYSE: DOW) combines one of the broadest technology sets in the industry with asset integration, focused innovation and global scale to achieve profitable growth and become the most innovative, customer centric, inclusive and sustainable materials science company. Dow's portfolio of performance materials, industrial intermediates and plastics businesses delivers a broad range of differentiated science-based products and solutions for our customers in high-growth segments, such as packaging, infrastructure and consumer care. Dow operates 113 manufacturing sites in 31 countries and employs approximately 37,000 people. Dow delivered pro forma sales of approximately $50 billion in 2018. References to Dow or the Company mean Dow Inc. and its subsidiaries. For more information, please visit www.dow.com or follow @DowNewsroom on Twitter.

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