

# ORAGUARD® 2815MF+ PAINT PROTECTION FILM

Technical Datasheet

04/25

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## Description

ORAGUARD® 2815MF+ is a transparent polyurethane film with a sophisticated matte finish, engineered for outstanding UV resistance and self-healing capabilities. Its innovative lotus-effect hydrophobic topcoat delivers exceptional chemical resistance and enhanced dirt-repellent properties. This advanced coating minimizes surface contamination and degradation, ensuring long-lasting yellowing resistance while maintaining a sleek, refined matte appearance.

## Release Liner

Matte PET, siliconized on one side, 75 µm (3.0 mils)

## Adhesive

Solvent polyacrylate, permanent

## Applications

Specifically designed for automotive applications, this film offers premium protection for painted surfaces, including hoods, fenders, bumpers, and door edges, shielding them from scratches, stone chips, and UV damage. It is also versatile enough for motorcycles, bicycles, aerospace, marine vehicles, and electronics, safeguarding their aesthetics and extending their lifespan.

## Technical Data

|                                                                                                                                                                                         |                                                                                                                                             |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>Thickness</b> <sup>(1)</sup>                                                                                                                                                         | 200 µm (7.9 mils)                                                                                                                           |                       |
| <b>Gloss</b> (Determined at 60° angle)                                                                                                                                                  | 13-19 (GU)                                                                                                                                  |                       |
| <b>Dimensional Stability</b> <sup>(1)</sup> (ASTM D1204)                                                                                                                                | Adhered to steel, shrinkage 0.2 mm max                                                                                                      |                       |
| <b>Temperature Resistance</b> <sup>(2)</sup>                                                                                                                                            | Adhered to aluminum, -40°F to +212°F, no variation                                                                                          |                       |
| <b>Resistance to solvents and chemicals</b><br>Immerse for 1 hour (water, acid),<br>30 min (Pancreatine, tree gum),<br>10 min (IPA, Gasoline, Motor Oil),<br>Check after 24 hours at RT | Water<br>Sulfuric Acid (10%)<br>Hydrochloric Acid (10%)<br>Bird droppings (Pancreatine)<br>Tree Gum<br>Gasoline<br>Motor Oil<br>Isopropanol | No Detrimental Effect |
| <b>Aging Test</b> (Xenon arc weathering to SAE J2527)                                                                                                                                   | > 4500kJ / 3400hrs                                                                                                                          | No Detrimental Effect |
| <b>Gravel Resistance</b> (SAE J400 2.4L of Gravel)                                                                                                                                      | Pass                                                                                                                                        |                       |
| <b>Adhesive Power</b> <sup>(1)</sup> (ASTM D3330, 180°, after 24 h)                                                                                                                     | Adhered to stainless steel: 680 N/m                                                                                                         |                       |
| <b>Tensile Strength</b> (ASTM D882)                                                                                                                                                     | Along: Min. 19 MPa<br>Across: Min. 19 MPa                                                                                                   |                       |
| <b>Elongation at Break</b> (ASTM D882)                                                                                                                                                  | Along: Min. 200%<br>Across: Min. 200%                                                                                                       |                       |
| <b>Shelf Life</b> (68°F/50% relative humidity)                                                                                                                                          | 2 years                                                                                                                                     |                       |
| <b>Minimum Application Temperature</b>                                                                                                                                                  | 50°F                                                                                                                                        |                       |
| <b>Maximum Life Expectancy</b> (based on accepted application procedures on vertical surfaces)                                                                                          | 10 years                                                                                                                                    |                       |
| <sup>(1)</sup> Average <sup>(2)</sup> Short-time exposure                                                                                                                               |                                                                                                                                             |                       |



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## Note

Surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination which could affect the adhesion of the material. Freshly lacquered or painted surfaces should be completely cured. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. Films with structured surface are naturally more sensitive than the unstructured. Accordingly, these films are to be treated carefully both in processing and in cleaning. Impurities affect the appearance of structured films and require more frequent cleaning. Furthermore the application information published by ORAFOL is to be considered. The batch traceability according to ISO 9001 is possible on the basis of the roll number.

## Splice Free Guarantee

Our Splice Free Guarantee assures you that every roll of ORAGUARD® over-laminate is free from splices. If you identify a verifiable splice, we will promptly replace the roll at no cost and provide you with \$500 as a token of our commitment to your satisfaction and uninterrupted graphic production experience.

## IMPORTANT NOTICE

All ORACAL® products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning ORACAL® products is based upon research which the Company believes to be reliable although such information does not constitute a warranty. Because of the variety of uses of ORACAL® products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. All specifications are subject to change without prior notice.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



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