

DATA SHEET



TOP COAT SR10

Scratch resistant
10

Explanation:

SR10 can be applied to optical surfaces, such as the faces of a lens or photographic film. This coating does not interfere with how the lens functions and does not affect vision, but creates a permanent bond with the lens that reduces the appearance of hairline scratches which is common to eyeglass lenses. Though an anti-scratch coating is not 100% scratch-proof, it helps to prevent minor scratches that can easily happen to a regular lens. These minor scratches can damage the surface of the lens and impair vision. An anti-scratch coating acts as a protective layer thus making the lenses more durable and safe.

Product Description:

SR10 is UV-curable hard and much more scratch-resistant than most UV coatings commercially available. It can be cured under UV light in seconds. Once cured, SR10 is the only coating that adheres to all kinds of lenses including Polycarbonate, CR-39, Trivex, Mid Index, and High Index (up to index 1.74) lenses. It brings super hydrophobicity to the surface of the lens, protecting the lens from contamination. It is crystal clear and tints to a true color in about 15 minutes. Coating quality was validated by COLTS Laboratories and is compatible not only with conventional vacuum AR (anti-reflective, anti-reflection) coatings, but also with novel sol-gel based AR coating. Due to its strong adhesion to anti-reflective coatings, the Bayer abrasion ratios after AR coatings on both SR and UT are at the top compared to other tintable hard coatings; the one on AB is close to thermally cured hard coatings. SR10 has the ingredients of stable viscosity, and is substantially solvent-free, so that its viscosity will not change much during long-term applications (six months and beyond). SR10 is welcomed by optical labs worldwide, because it is environment- and user-friendly. It is applicable in existing lens coating machines (spin coaters), and is also miscible and co-curable with other non-volatile (NV) UV- coatings. No operational change is required for switching to SR10

Data and details in this sheet were correct and up-to-date at the time of printing and are intended to provide information on our products and their possible applications. This sheet is not a specification and does not assure specific product characteristics or make reference to the suitability of the products for a definite application. Because Permanento cannot anticipate or control every application, we strongly recommend testing of this product under individual application conditions. In accordance with our policy of continuous improvement specification may vary.

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Physical Properties:

Color: Light straw colored

Odor: Mild

Specific Gravity: 1,1

Viscosity: 30 - 50 cps

Refractive Index: 1.5

Abrasion Test: Bayer tinted with BPI Black Dye at 95 - 100°C 15 minutes Less than 30% Transmission

Adhesion Test: ASTM D3359-92 (a), adhesion after tint, 3M tape 600

Polycarbonate (surfaced)	100%
CR 39 (surfaced)	100%
Hi Index 1.56 (surfaced)	100%
Hi Index 1.60 (surfaced)	100%
Hi Index 1.66 (surfaced)	100%
Hi Index 1.67 (surfaced)	100%
Hi Index 1.70 (surfaced)	100%
Hi Index 1.74 (surfaced)	100%

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