

Description

Top-coated polyurethane film, transparent, glossy with excellent UV resistance and self-healing surface. The surface has a low surface energy (lotus effect) and a particularly high chemical resistance. The migration of dirt into the film is effectively prevented by the surface coating, which prevents yellowing.

Release Liner

Matt PET, siliconized on one side, 75 µm

Adhesive

Solvent polyacrylate, permanent

Area of use

For the protection of sensitive surfaces against particularly strong mechanical forces in interior and exterior applications. Specially designed for the protection of car-paints e.g. front and rear bumpers and side skirts against stone chipping, scratches. Recommended for bonding to even and slightly curved surfaces.

Technical Data

Thickness ⁽¹⁾ (without protective liner and adhesive)	160 micron	
Dimensional stability ⁽¹⁾ (FINAT TM 14)	Adhered to steel, shrinkage 0,2 mm max.	
Temperature resistance ⁽²⁾	Adhered to aluminium, -40° C to +100° C, no variation	
Resistance to solvents and chemicals Immerse for 1 hour (water, acid), 30 Min (Pancreatine, tree gum), 10 Min (IPA, Gasoline, Motor oil), Check after 24 hours at RT	Water Sulfuric Acid (10%) Hydrochloric Acid (10%) Bird droppings (Pancreatine) Tree gum Gasoline Motor oil Isopropanol	No Detrimental Effect
Aging Test Xenon weathering acc. To DIN EN ISO 4892	> 1000 hr	No Detrimental Effect
Gravel Resistance SAE J400 2.4L of Gravel	Pass	
Gloss Determined at 20° angle	>96 (GU)	
Adhesive Power ⁽¹⁾ (FINAT TM 1, 180°, after 24h stainless steel)	17 N/25 mm	
Tensile strength (DIN EN ISO 527)	Along: min. 29 MPa Across: min. 29 MPa	
Elongation at break (DIN EN ISO 527)	Along: min. 300% Across: min. 300%	
Shelf life ⁽³⁾	2 years	
Application temperature	> +10° C	
Proposed application technique	Wet application process using ORAFOL® Application Gel	
Maximum service life by specialist application Applies for vertical outdoor exposure ⁽⁴⁾	10 years	

⁽¹⁾ average ⁽²⁾ short-time exposure ⁽³⁾ in original packaging, at 20° C and 50% relative humidity ⁽⁴⁾ normal climate of Central Europe

Note

Surfaces to which the material will be applied must be thoroughly cleaned and free from dust, grease or any other contamination that could affect the adhesion of the material. Freshly lacquered or painted surfaces should be allowed to dry for at least three weeks and to completely cure. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. We recommend wet application of the film. Furthermore, the application information published by ORAFOL must be considered. The batch traceability according to ISO 9001 is possible on the basis of the roll number.

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