

DURAFLON®

Product

Based on none-blended thermosetting Fluoropolymer resins, Duraflon® coatings are one and two-layer systems for both extrusion as well as coil coating. Duraflon® meets the highest standards placed on external appearance and functionality set by PVDF finishes. True metallics from matt to glossy not possible with other formulations offer matchless freedom in designing.

Application

Duraflon® coatings are used in aluminium construction for profiles in the area of windows, doors and construction. They are also applied to elements for louvers, curtain walls, roof covering, aluminium composite panels etc.

Durability

The unparalleled durability of fluoropolymer-resin-based coating materials has been proven for more than 30 years. Duraflon® coatings are chemically inert and offer resistance against extreme environmental stress and UV radiation. They are exclusively formulated with pigments which have been tested for use in exterior construction in Florida for at least ten years.

Sustainability

Duraflon® coatings have been awarded the GSB Premium Quality Label and meet the performance requirements of American Architectural Manufacturers Association (AAMA) 2605.

They are checked regularly and extensively by accredited institutes for worldwide use. The unsurpassed resistance against accumulations of dirt, fungi, spores and graffiti as well as chemically induced discolorations makes them an ideal choice for prestigious projects where long-term aesthetics are desired.

Duraflon® coatings make a contribution to the lasting stabilisation or increase of market values and earning rates. Maintenance and cleaning costs for building envelopes are considerably reduced for the entire lifecycle. Moreover, the input of cleaning detergents in nature and the environment are noticeably reduced. The high recycling potential of aluminium in the deconstruction of buildings is in no way impaired if they have previously been refined with Duraflon®. Air dry systems are available for touch-up and refurbishment in the field.

Cleaning of Duraflon® coated surfaces

Expert and regular cleaning not only maintain the aesthetic and representative finish of coated surfaces but also maintains their quality through the removal of dirt and aggressive deposits.

Cleaning intervals depend on local environment conditions and the resulting amount of soiling. Surfaces should be cleaned either manually or with a suitable cleaning device from top to bottom.

Please use non-abrasive pads on coated surfaces. We recommend that the cleaning agent be tried on an inconspicuous area of the object to be cleaned to check whether the surface is affected.

Do not clean hot surfaces (>40 deg. Centigrade) as the quick drying process may cause cords or other blemishes.

All cleaning agents shall have a neutral Ph of 5 – 8.

Unsuitable cleaning agents

Please do not use any powerful alkaline cleaning agents such as potassium hydroxide, sodium carbonate or caustic soda, any powerful acidic products, or any heavily abrasive scouring agents such as Vim, Ajax etc. or coating-dissolving cleaning agents.

Classification of Weathering and recommended Cleaning Frequency of **Duraflon®** Coatings

Weathering Classification	Corrosion Influence	Climatic Conditions	Recommended Pre-treatment	Corrosion Test	GSB Material	Cleaning Frequency
Country Side	Low to medium	Low levels of pollution, surrounded by countryside	Chromating / Cr-free	Atmosphere with constant humidity	Duraflon Premium	Every 6 years
Industrial	High	Industrial atmosphere with corrosive pollution and coastal areas with low salt content	Chromating / Cr-free	AASS	Duraflon Premium	Every 3 years
See Proof	Very high	Coastal areas with medium salt content	Chromating / Cr-free, documented process	Filiform-corrosion and AASS	Duraflon Premium	Annual
See Proof Plus	Very high	Coastal areas with high salt content, open sea	Chromating / Cr-free, documented process Pre-anodising	Filiform-corrosion and AASS	Duraflon Premium 50+	Annual

Architectural Coatings

DURAFLON®

Test	AMMA 2605 Paraphr	Duraflon®
Substrate		Aluminium, properly treated
Colours Available		Metallics, Micaceous Iron Oxide, Pearl, etc.
Quality Standards		GSB Premium approved, AAMA 2605 compliant
Dry Film Thickness		35µ extrusion 25µ coil coating
60° Gloss, ASTM D523	7.2	10 - 80 Units
Pencil Hardness	7.3 F minimum	H - 2H
Adhesion – Crosshatch 1/16" Wet and Dry	7.4 No removal	no removal
Direct Impact	7.5 No removal	no removal
Abrasion Resistance ASTM D968	7.6 Abrasion Coefficient Value 40 min.	Meets or exceeds
10% Muriatic Acid Spot Test	7.7 15 minutes – no attack	Meets or exceeds
Mortar Pat test	7.7 24 hours – no attack	Meets or exceeds
Detergent Resistance	7.7 72 hours – no attack	Meets or exceeds
Resistance to Acid Pollution	7.7 Max. 5 dE Units Colour Change	Meets or exceeds
Salt Spray Resistance	7.8 1/16" max. undercutting	Meets or exceeds
Humidity Resistance	7.8 Few #8 blisters max. 4000 hours	Meets or exceeds
Colour Retention ASTM D2244	.9 Max. 5 dE Colour Change 10 years 45° South Florida	Meets or exceeds
Gloss Retention ASTM B523	7.9 50% Min. 10 years Florida	Meets or exceeds
Chalk Resistance ASTM D4214	7.9 Max. Rating 8 10 years 45° South Florida	Meets or exceeds
Erosion ASTM B244	7.9 Max. 10% loss 10 years 45° South Florida	Meets or exceeds