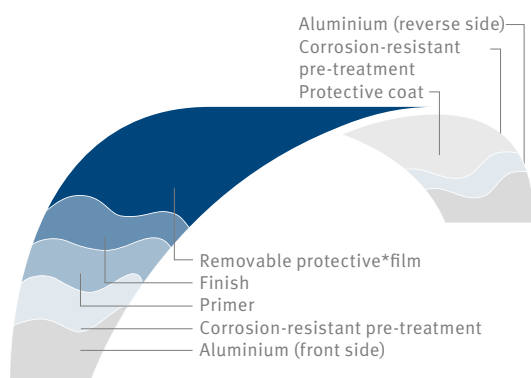


BEMO-FLON PROTECT

MAIN FEATURES

The BEMO-FLON PROTECT paint is a polymer paint system applied wet in a coil coating process. The paint system offers very good resistance against weathering, UV and corrosion, as well as good chalking protection. The finish is very flexible.

On the visible side, the coating thickness is approx. 35 – 40 µm on the basis of a 2-layer structure and approx. 50 – 55 µm with 3-layer coating. A protective coat of approx. 5 – 10 µm in a light colour is applied to the reverse side as standard.



** Please remove the protective film immediately after mounting of the panels and do not expose the protective film to UV radiation for a longer period of time, not even during storage.*

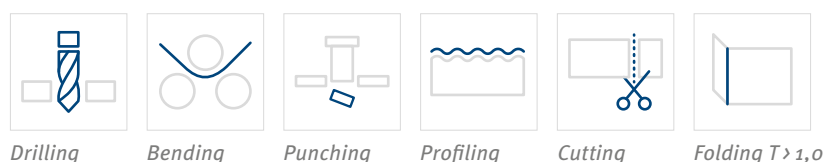
The BEMO-FLON PROTECT paint system offers a very wide range of colours, a large variety of possible gloss levels and is available with differently structured surface finishes. BEMO-FLON PROTECT is our recommendation for an economical, durable and easy-to-apply paint system outside highly corrosive areas.

The coating complies with corrosion protection class K111.

APPLICATIONS

- Recommended for all roof and façade solutions, also for intensive colour shades and high UV radiation.
- The coating is characterised by a good balance of hardness and flexibility. It is therefore easy to process and offers high resistance against scratches.
- The coating has good bending capacity with a low risk of cracking.
- With touch-up paints of the same systems, repainting can be realized.

Processing Possibilities



Colour samples



Surface finishes

Smooth:
Plain and metallic colours
Structure:
Structured surface finishes

BEMO-FLON PROTECT

- All RAL and NCS colours possible
- Standard colours: none
- Minimum quantity for special colours in aluminium: 1.0 to – approx. 350 m²
- Gloss levels from 3° to 90° (standard: GE 25 +/- 5) from Super Matt to High Gloss
- Product groups: BEMO standing seam, UNIKO, PRIMO, aluminium composite panels, trapezoidal and corrugated profiles

PERFORMANCE AND DURABILITY OF BEMO-FLON PROTECT PRE-PAINTED ALUMINUM SHEETS		2-COATS	3-COATS
Coating thickness	EN 13523-1 / ASTM D 7091	35 – 40 µm Basics: Uni- and Metallic Colours Natural, Structure	50 – 55 µm Natural Brushed Look Structure
Gloss	EN 13523-2 / ASTM D 523	High Gloss (GE 80 + / - 5), Gloss (GE 50 + / - 5), Semi Gloss (GE 25 + / - 5), Matt (GE 10+ / - 3), Super Matt (GE 4 + / - 2) Tolerances according to EN 1396	
Resistance class	NF EN 1396	Category 4: Industry, extreme conditions / sea and coasts (at a distance of more than 3000 m from the sea), high UV radiation and aggressive conditions	
Pencil hardness	EN 13523-4 / ASTM D 3363	> HB	
Resistance to cracking on rapid deformation	EN 13523-5 / ASTM D 2794	No cracking, no loss of adhesion	
Resistance to cracking on bending	EN 13523-7 / ASTM D 4145	Very good flexibility (0.5T), depending on alloy and temper	
Acetic salt spray fog resistance	EN 13523-8 / ASTM G 85	1,000 h	
Humidity resistance	EN 13523-25 / ASTM D 2247	3,000 h	
Colour fastness on natural weathering	Florida Exposure 45° South EN 13523-3 / ASTM D 2244	After 5 years exposure: colour variation: 5 to 10 units (ΔE) depending on colour	
Resistance to chalking on natural weathering	Florida Exposure 45° South ASTM D 4214	Rating ≥ 8	
Adhesion after indentation	EN 13523-6 / ASTM D 3359	100 % of adhesion	
Water immersion resistance	EN 13523-9 / ASTM D 870	3,000 h	
salt acid test	AAMA 2605 / ASTMD 1308	No effect	
sulphuric acid test	AAMA 2605 / ASTMD 1308	No effect	

COMPARISON OF BEMO COATING VARIANTS

COMPARISON OF PAINT TYPES						
	Bending resistance*	Humidity resistance*	Chemical resistance*	Corrosion resistance*	Gloss retention*	Surface hardness*
POLYESTER	3	3	2	3	3	4
BEMO-FLON PROTECT	3	4	4	3	4	3
PVDF	5	5	5	4	5	4
BEMO-FLON FEVE	4	5	5	4	5	3

COLOUR FASTNESS TO ENVIRONMENTAL IMPACTS						
	Rural environment*	Urban environment*	Industrial environment*	Distance from the coast*		Sun-intensive zones*
				> 5 km	1,5 – 5 km	
POLYESTER	3	3	2	2	0	0
BEMO-FLON PROTECT	4	4	3	3	3	1
PVDF	5	5	5	5	5	5
BEMO-FLON FEVE	5	5	5	5	5	5

*(Classification according to BEMO)

Rating scale: 5 = very good, 1 = poor



Cleaning

Please observe the cleaning instructions on the technical data sheet "BEMO painted surfaces – Cleaning instructions" on our website.

BEMO maintains the right to update and modify the contents of this datasheet at any time. The specified values are average values of the various paint manufacturers of the coating system and may vary slightly depending on the colour and base material. Each customer is advised to ensure that the product is suitable for his production.