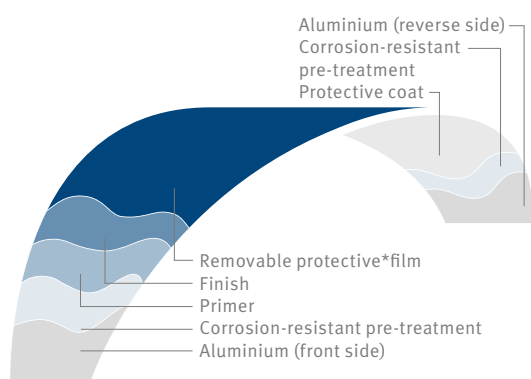


BEMO PVDF

MAIN FEATURES

The BEMO PVDF paint is a high-performance thermoplastic applied wet in a coil coating process. Our PVDF paints offer very good colour fastness and very low chalking tendency. For this reason, BEMO PVDF is highly recommended for use with intensive colour shades.

Thanks to their very high UV resistance and low layer thickness degradation, our PVDF coatings are suitable for use close to the sea, in the environment of aggressive media and for regions with high UV radiation.



** 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.*

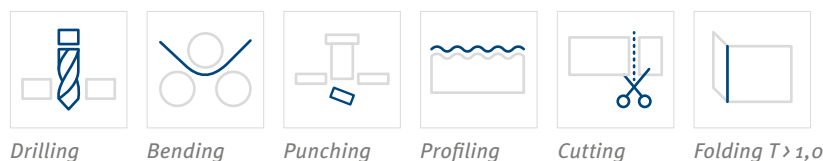
On the visible side, the coating thickness is approx. 25 µm on the basis of a 2-layer structure and approx. 35 – 40 µm with 3-layer coating. A protective coat of approx. 5 – 10 µm in a light colour is applied to the reverse side as standard.

Depending on the area of application, we recommend individual testing to determine whether a PVDF coating should also be used on the reverse side. The PVDF coating complies with corrosion protection class KIII. The PVDF coating contains fluorine.

APPLICATIONS

- Recommended for roof and façade solutions in intensive colour shades, close to the sea, with intensive UV radiation and in the environment of aggressive ambient media.
- Good resistance to chlorine, petrol, halogenated solvents, amines, ammonia, aniline, acids, hydrogen peroxide and hot water.
- 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.
- The PVDF system is not well suited for repainting.

Processing Possibilities



BEMO PVDF

- 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 10° to 35° (standard: GE 25 +/- 5)
- Product groups: BEMO standing seam, UNIKO, PRIMO, trapezoidal and corrugated profiles
- Surface finishes: Smooth, plain and metallic colours

COATING	RELEVANT STANDARD	DETAILS
Coating thickness	EN 13523-1	Primer: 5 – 15 µm ¹⁾ Interlayer: 15 – 25 µm ¹⁾ (3-coats-system) Topcoat: 15 – 25 µm ¹⁾ Tolerances according to EN 1396
Colour	EN 13523-3	Bright colours: ΔE ≤ 1; 45° / 0° Other colours: ΔE ≤ 2; 45° / 0° Metallic: Visual assessment
Gloss	EN 13523-2	Matt to semi gloss (10-35 GE) ¹⁾ Tolerances according to EN 1396
Pencil hardness	EN 13523-4	Min. F
Acetic salt spray fog resistance	EN 13523-8 / ASTM G 85	1.000 h
Water immersion resistance	EN 13523-9 / ASTM D870	3.000 h
Bending	EN 13523-7	≥ T1, dependent on substrate
Resistance to chalking on natural weathering	Florida Exposure 45 ° South / ASTM D4214	Rating > / = 8
Substrate/pre-treatment		Environmentally friendly chrome-free hot A/C pre-treatment
Index of corrosion resistance	EN 1396	3
UV-resistance class ³⁾	EN 1396	R _{UV4} ²⁾ , based on QUVA-testing / natural weathering
Fire protection certificate Europe	EN 13501	A1

1) depending on colour

2) Exemption for colours with organic pigments

3) Category 4: Industry / extreme conditions close to the sea > 1,500m distance / high UV radiation / aggressive environment

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.