

BEMO-FLON FEVE

MAIN FEATURES

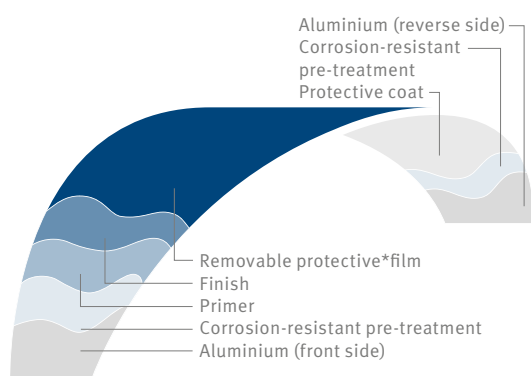
BEMO-FLON FEVE is a high-performance coating applied wet using the coil coating process. (FEVE = Fluoro Ethyl Vinyl Ether). The paint system offers very good colour fastness and very low chalking tendency. The paint surface does not easily absorb dirt (TEFLON effect) and is therefore very easy to clean, even in case of graffiti vandalism.

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

high UV radiation. On the visible side, the coating thickness is approx. 25 µm on the basis of a 2-layer structure and approx. 35 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.

BEMO-FLON FEVE is available in 1000+1 colours and in all gloss levels.

The FEVE coating complies with corrosion protection class K111. The BEMO-FLON FEVE coating contains fluorine.

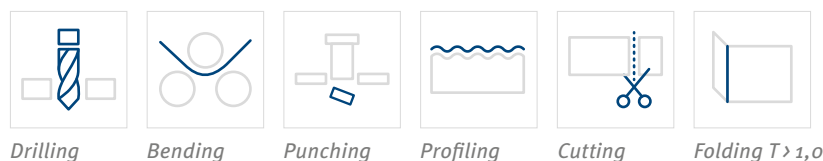


** Please remove the protective film immediately after mounting of the panels and do not expose the protective film to UV radiation for a longer period of time, not even during storage.*

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 FEVE system is very well suited for repainting in the same paint system. Touch-up paints for all colours are available.
- Depending on the area of application, we recommend individual testing to determine whether a FEVE coating should also be used on the reverse side.

Processing Possibilities



BEMO-FLON FEVE

- 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 5° to 85° (standard: GE 25 +/- 5)
- Product groups: BEMO standing seam, UNIKO, PRIMO, aluminium composite panels, trapezoidal and corrugated profiles
- Surface finishes: Smooth, plain and metallic colours

Colour options

Each colour and gloss level can be individually adjusted

- + Easy to clean (anti-graffiti)
- + Surface effect similar to Teflon
- + Long-lasting colour consistency
- + Outstanding UV light and weather resistance
- + High corrosion protection
- + Excellent chemical resistance
- + Dirt resistant
- + Possibility of recoating

PERFORMANCE AND DURABILITY OF BEMO-FLON FEVE

Coating thickness	EN 13523-1 ASTM D 7091	25 µm for 2-layer-coating Standard: Uni- and Metallic Colours
Gloss	EN 13523 – 2 ASTM D 523	High Gloss, Semi Gloss, Matt from 5 – 85 GE
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 – F
Resistance to cracking on rapid deformation	EN 13523-5 / ASTM D 2794	No cracking, no loss of adhesion
Adhesion after indentation	EN 13523-6 / ASTM D 3359	100 % of adhesion
Resistance to cracking on bending	EN 13523-7 ASTM D 4145	Good flexibility (< 1,0T) depending on alloy and temper
Acetic salt spray fog resistance	EN 13523-8 / ASTM G 85	1,000 h
Water immersion resistance	EN 13523-9 / ASTM D 85	3,000 h
Mortar test	AAMA 2605	No effect
Acid resistance 10 % HCl solution (15 min /23 °C) 20 % H ₂ SO ₄ solution (18 h /23 °C) Nitric Acid ⁴	AAMA 2605 ASTM D 1309	Hydrochloric acid: no effect Sulphuric acid: no effect Nitric acid: ΔE < 5 units except some blue and metallic colours
Detergent resistance: 3 % VIGOR solution (72 h / 30 °C)	AAMA 2605	No effect
Colour fastness on natural weathering	Florida Exposure 45 ° South EN 13523-3	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

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.