

Weather sealant for curtain wall and metal cladding facades

1. General
- Single component, moisture curing, low-modulus elastic weather sealant.
2. Use
- In weather proofing and sealing applications where durability under severe conditions is required, particularly suited for use as a weather sealant for curtain wall and metal cladding facades.
3. Composition
- Sealant composition should be suited to the cladding materials it is being used in conjunction with.
4. Application
- 4.1. Porous substrates
- Concrete, aerated concrete and cement-based renders, mortars and bricks shall be primed prior to application.
- 4.2. Non-porous substrates
- Float glass, coated glass, anodised aluminium, stainless steel, powder coated and PVDF coated metals have to be pre-treated prior to application.

Joint length [m] per 600 ml foil pack	Joint width [mm]	Joint depth [mm]
10	10	6
5	15	8
3	20	10
2	25	12
1.3	30	15

6. Technical characteristics
- 6.1. Movement capability
- ± 25% (ISO 9047)
- ± 50% (ASTM C 719)
- 6.2. Service temperature
- −40 °C to +150 °C
- 6.3. Joints
- The joint width must be designed to suit the joint movement required and the movement capability of the sealant. The joint width shall be ≥ 6 mm and ≤ 45 mm. The joint depth shall be ≥ 6 mm and ≤ 15 mm. A width to depth ratio of 2:1 must be maintained (for exceptions, see table below).

Joint Width [mm]	Joint Depth [mm]
10	6
15	8
20	10
30	15
45	15

All joints must be correctly designed and dimensioned in accordance with the relevant standards, before their construction. The basis for calculation of

- the necessary joint widths are the type of structure and its dimensions, the technical values of the adjacent building materials and the joint sealing material, as well as the specific exposure of the building and the joints. Contact manufacturer if larger joints are required.
- 6.4. Secant Tensile Modulus
- ~ 0.35 N/mm2 at 100% elongation (23 °C) (ISO 8339)
- ~ 0.40 N/mm2 at 100% elongation (−20°C)
- 6.5. Backing material
- Closed cell, polyethylene foam backing rods.
- 6.6. Ambient air temperature
- +5 °C to +40 °C, min. 3 °C above dew point temperature
- 6.7. Elongation at Break
- ~ 800% (ISO 37)
- 6.8. Density
- ~ 1.50 kg/l (ISO 1183-1)
- 6.9. Colour
- Black, Grey
7. Tests
- Adhesion tests on project specific substrates must be performed prior to application.
8. Approvals/Certificates
- ASTM C 920, class 50

Sealant type compatibility with different materials

Use	Latex	Acrylic	Butyl	Polysulfide	Silicone	PU
submerged	1	1	3	4	1	4
interior	4	4	3	3	4	4
exterior	1	2	1	3	4	4
struct. Glazing	1	1	1	1	4	1
window perimeter	1	2	1	3	4	4
expansion joints	1	1	1	2	4	4
traffic joints	1	1	1	3	2	4
wide joints	1	1	1	1	3	3
paintable	4	3	2	1	1	4
chem. Resist	1	1	1	4	1	3
EIFS	1	1	1	1	4	4
Tilt-up	1	1	1	2	2	4
pre-cast	1	1	1	2	4	4
cast-in-place	1	1	1	2	3	4
brickwork	1	1	1	2	2	4
curtain wall	1	1	2	2	4	2
UV resistance	1	3	2	3	4	3
1=NR, 2=poor, 3=good, 4=excellent						

NOTES:

TITLE	MATERIAL SPECIFICATION SEALANT FOR METAL CLADDING FACADES	
CLADDING	SOLID ALUMINIUM	
SUBSTRATE	ALL	Rev
DWG NUMBER	000-AC-GF-DWG-0107	3