



Aperture



Aperture seamless weathering system

Aperture is a seamless cold-applied system designed to weatherproof openings in roof and wall cladding, roof junction details, difficult to weather details and renovate problematic gutters.

Introduction The **Aperture** system offers the following features:

- Reinforced with chopstrand matting
- Durable finish
- Cold-applied using hand lay process
- Can be applied during or after construction
- Minimal disruption
- Maintenance free

The company offers a full supply and installation service.

Applications include pipe penetrations, difficult roof junction details, leaking gutters, rooflights, access hatches, roof windows, valley gutters, sun pipes and cable trays. **Aperture** is suitable for a wide range of existing substrates, including bituminous surfaces, GRP, concrete, timber, asphalt, approved insulation boards, metal profiled sheets and single-ply systems.

Authority **Aperture** will assist the specifier in achieving the requirements of Part L of the Building Regulations. Its use has been approved by Kingspan for use with their systems and has been tested for compatibility with Colorcoat HPS200 (R) and the Corus Confidex (R) Guarantee for total peace of mind. Colorcoat, Confidex and HPS200 are registered trademarks of Corus.

Aperture operates a quality management system to BS EN ISO 9001: 2008.

Aperture BBA Certificate No. 08/4560.

DESCRIPTION

The **Aperture** weathering system is a high elongation, cold-applied liquid surfacing which has permanent elasticity and a durable finish. Cold application ensures minimal disruption and no heat or flame is required.

Installation is only by the company's trained employees.

Appearance The finish is seamless.

PERFORMANCE

Weather *Accelerated weathering* (ASTM G53 - 2000 hours)
Minor surface chalking, no blisters, no loss of adhesion.

Mechanics *Coating adhesion* (N/mm²; ASTM D4541)

unprimed concrete	2
primed concrete	3 - 5
<i>Elongation</i> (%; BS 2782: 320A)	
unreinforced system	300
reinforced system 10	30



Impact resistance (ASTM G 14-88) 2.5 joules
(BS 3900: E3)

No cracking or detachment from substrate.

Tear strength (N/mm; BS 2782: 32013)
unreinforced system 7
reinforced system 10 25

Tensile strength (N/mm²; BS 2782: 320A)
unreinforced system 7
reinforced system 10 9

Fire *Resistance to fire* (BS 476: Part 3)
Indicative test rating FAA

Gases *Water vapour transmission* (ASTM E96/1653)
Specific permeability 25 m²/day

Liquids *Salt spray* (ASTM B117 - 1000 hours)
Minor surface chalking, no blisters, no loss of adhesion.

Water absorption (% weight gain; ASTM D570)
7 days 5
21 days 6.5

Heat *Heat ageing* (56 days @ 70°C)
No significant changes in mechanical properties.

Freeze/thaw
Constant immersion (16 hrs @ -20°C / 8 hrs @ -25°C. 5 cycles)

No significant changes in mechanical properties.

Thermal cycling/low temperature flexibility (BS 3900: E1) Thermally cycled film (16 hrs @ -25°C/8hrs @ +80°C. 7 cycles) tested at 0°C.

Pass 5 mm dia. mandrel.
Durability Life expectancy is 20 years.

ECONOMICS

Guarantees **Aperture** products are available with a 10 year guarantee.

SERVICES

The company offers a full design, supply and installation service with CPD presentations to specifiers.

REFERENCES

Information on an associated range of rooflights, roof hatches and individual case studies are available from the company.

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