

Product Data Sheet

CasTech Flex 202

Nov-2025, Ver. 01.01



Single-Component Elastomeric Acrylic Weather-Resistant Coating

DESCRIPTION

CasTech Flex 202 is a single-component, water-based acrylic coating that forms a tough, flexible, elastomeric, and durable film. It provides resistance to weathering agents, including ultraviolet radiation, sunlight, frost, and rainfall, and can be used as a solar-reflective coating on new and existing roofs.

TYPICAL USES

- Protective and solar-reflective coating for sloped concrete roofs and profiled metal roofs.
- UV protection for sprayed polyurethane foam.
- Coating for concrete, lightweight concrete, and wood.
- Terraces, balconies, and wet areas, including kitchens and bathrooms in residential buildings.

ADVANTAGES

Key advantages:

- Weatherproof, water-based coating.
- Easy to mix and apply.
- Excellent adhesion and high crack-bridging capability.
- Elastomeric and flexible.
- Resistance to chloride and carbon dioxide diffusion.
- UV and weathering resistant.

TYPICAL PROPERTIES

Colour	White /Light grey
Specific gravity at 25°C (ASTM D1475)	1.30 ± 0.05
Solid content (ASTM D6083)	64 ± 1%
Crack-bridging ability (ASTM C836)	>1.0 mm
Elongation at break (ASTM D412)	>400%
Solar reflectance ¹ (ASTM C1549)	>80%
Thermal emittance ¹ (ASTM C1371)	0.8
Solar Reflectance Index ¹ (ASTM E1980)	>90
Tensile strength (ASTM D412)	>1.4 N/mm ²
Adhesion strength (ASTM D4541)	>2.4 N/mm ²
VOC content (DMS0033:2016)	<1.0 g/L
Application temperature	+5 to +45°C
Service temperature	-5 to +70°C

¹ Values apply to the white grade only. All values are supplier-declared and subject to the supplier's stated 5–10% tolerance. The basis of solid content (mass or volume) is not specified.

HEALTH AND SAFETY

Wear protective clothing, goggles, and gloves. Avoid skin and eye contact. Wash skin with soap and water. Rinse eye splashes immediately with clean water and seek medical attention. Refer to the Safety Data Sheet.

APPLICATION INSTRUCTIONS

Surface preparation

Concrete must be sound, clean, and free from dust, loose particles, and contaminants. Repair cracks and potholes using a suitable concrete repair mortar. Clean metal surfaces of rust and scale by wire brushing or grit blasting.

Priming

Where required to seal pores and stabilise the surface, use **CasTech Flex 202** diluted with 20% clean water as a primer. Apply by brush, roller, or spray and allow the primer to dry completely before coating.

Application

Apply by brush, roller, or airless spray. For airless spraying, the supplier permits approximately 5% water dilution to reduce viscosity. For brush or roller waterproofing application, use undiluted material.

Apply a minimum of two coats. Allow each coat to cure completely before applying the next. Inspect the first coat for pinholes and surface irregularities before recoating. Apply the second coat at right angles to the first.

CONSUMPTION AND FILM THICKNESS

Waterproofing

Apply 0.9–1.0 kg/m² per coat. The supplier states a theoretical 0.5 mm DFT at this application rate. Two coats require a theoretical total of 1.8–2.0 kg/m², excluding primer and application losses.

Solar-reflective coating

Apply 0.5–0.6 kg/m² per coat. Maintain a roof slope of 1:75 to avoid ponding. Actual consumption depends on substrate profile, porosity, and application losses.

IMPORTANT APPLICATION NOTES

Drying, recoating, and full-cure times are not specified in the supplier TDS. Confirm suitable waiting times for site conditions.

PACKAGING

20 kg plastic pail.

STORAGE AND SHELF LIFE

Store tightly closed in a cool, dry, shaded warehouse, away from direct sunlight and extreme temperatures. In extreme tropical conditions, use cooled storage. Excessive humidity and UV exposure may reduce shelf life. Shelf life is 12 months from manufacture under the recommended storage conditions.

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TECHNICAL SUPPORT

CasTech provides on-site assistance and consulting services on projects when requested. Technical data sheets on

other CasTech products and guidance on their use are available on request.

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