

# ANDURA

## Pro-Flex Ultimate

High performance, crack-accommodating, elastomeric, silicone/silane modified acrylic protective and decorative coating for exterior concrete and masonry.

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### USES

Pro-Flex Ultimate has been specifically formulated for the protection and decoration of masonry and concrete facades. The highly elastomeric properties make Pro-Flex Ultimate especially useful where there is a probability of subsequent cracks appearing in the substrate, or cyclic crack movement. Pro-Flex Ultimate exhibits excellent breathability.

The product should not be used on buildings in England and Wales that have a storey at least 11 metres above ground level and which contains one or more dwellings; an institution; or a room for residential purposes.

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### ADVANTAGES

- A truly inherent elastomeric coating with excellent crack-accommodating and recovery properties, even at extremes of ambient temperature.
- Excellent breathability
- Excellent resistance to weathering
- Low dirt pick-up
- Water based.

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### DESCRIPTION

Pro-Flex Ultimate is a single component, water based, silicone/silane modified acrylic, elastomeric coating ready for immediate site use. Andura Classic Primer, a single component acrylic material, is recommended as a stabilising primer on cementitious surfaces.

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### TECHNICAL SUPPORT

Andura offers a comprehensive range of high performance coatings for the interior and exterior protection and decoration of building surfaces.

Andura provides a support package to engineers, architects, specifiers, end-users and contractors as well as training and on-site assistance.

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### TECHNICAL DATA

The following are typical values for Pro-Flex Ultimate when applied at the minimum recommended application rate.

#### Typical Coating Properties

- Classified 'Highly Breathable' when tested in accordance with DIN EN ISO 7783 Part 2. The material achieves a V-Value greater than 150 g/m<sup>2</sup> per day and an sd-Value of less than 0.14 metres of air.
- Classified as 'Highly Water Resistant' when tested in accordance with DIN EN 1062-3. The material achieves a W24-Value of less than 0.1 kg/m<sup>2</sup> x h0.5.

\*Note: this data does not constitute a specification

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### SPECIFICATION CLAUSE

The protective coating systems shall be the Pro-Flex Ultimate system. When applied at its minimum application rate, the system shall provide a crack accommodation of ~1mm.

## APPLICATION

### Preparation

All surfaces shall be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss and algal growth, laitance, and all traces of mould release oils. This is best achieved by medium/high pressure water blasting the surface. Where moss, algae or similar growths have occurred, treatment with Andura Biocide shall be undertaken after the blasting process. The surface must be allowed to dry before applying Andura Biocide.

Where application over existing sound coatings is required, trials should be undertaken in order to ensure compatibility and retention of bond between the underlying coating and the substrate and of the bond between Pro-Flex Ultimate and the existing coating.

In order to produce a continuous coating of Pro-Flex Ultimate, for optimum protective and decorative performance, all surfaces exhibiting blow-holes or similar imperfections shall be treated with our recommended fairing coat. Please consult Andura for further details.

## APPLICATION

In order to obtain the protective properties of the Pro-Flex Ultimate system, it is essential that the correct rates of application are achieved. Surfaces which show signs of chalkiness or surface dusting must be primed with one coat of Andura Classic Primer before applying two coats of Andura Pro-Flex Ultimate topcoat. Pro-flex Ultimate may be applied directly to sound, dust free surfaces, with the first coat thinned with up to half a litre of water per 20 litres coating when applying by brush or roller to highly absorbent surfaces.

Both materials shall be thoroughly stirred before use to a uniform consistency. During application of both materials, walkways, plants, joint sealants, asphalt, and bitumen painted areas and glass shall be masked and shielding provided to prevent airborne contamination.

Application shall not be carried out during wet, frosty, or foggy weather, when air or substrate temperature is below 5°C or where these conditions may occur before the coating has dried. Low temperatures and high humidity will considerably lengthen drying times. Pro-Flex Ultimate will become dry and re-coatable after approx. 2-4 hours (20°C – 65% relative humidity).

Where required, Andura Classic Primer shall be applied to all prepared surfaces by brush, roller, or spray at an application rate of 0.20 – 0.25 litres per square metre, depending on the nature of the substrate.

A uniform surface appearance shall be achieved and if any porous patches remain, a further application of Primer shall be made. The Primer shall be allowed to dry for a minimum of 16 hours before continuing. Under no circumstances shall the primer be over-coated with Pro-Flex Ultimate topcoat until the surface is completely dry. If not overcoated after 4 weeks, re-application of primer shall be carried out.

Pro-Flex Ultimate shall be applied in two coats to all primed surfaces by brush, roller, or spray. The first coat shall be applied at an application rate of 0.20- 0.25 litres per square metre, taking care to achieve a uniform wet film thickness of not less than 200 microns.

When the first coat is fully dry, the second coat of Pro-Flex Ultimate shall then be applied as detailed above, again achieving a uniform wet film thickness of not less than 200 microns. When applying by roller, it may be necessary to follow the applications by laying off with a brush in order to achieve a smooth finish.

## EQUIPMENT

For spray application use Airless Spray Equipment that will support a tip size of 25 – 27 thou (0,025” – 0,027”).

The application rate is given for guidance only. Owing to factors such as wastage, application technique and the nature and variety of possible substrates, practical application rates may differ significantly.

## STORAGE

All products have a shelf life of 12 months if kept in a dry store in the original, unopened containers. Pro-Flex Ultimate should be protected from frost.

## PRECAUTIONS

Health Safety and Environmental Information

Water Borne Coating

Ensure good ventilation during application and drying.

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash with plenty of soap and water or a recognised skin cleanser. Do not use solvent.

When spraying do not breathe spray, wear suitable respiratory protective equipment. Keep out of reach of children. Do not empty into drains or watercourses. Avoid release to the environment. Refer to the safety data sheet which includes waste hazard categories. Refer to the safety data sheet before using this product. EU limit for this product (CatA/h) 140g/l (2010). This product contains max. 140g/l.

## FIRE

Pro-Flex Ultimate is non-flammable. Andura Classic Primer and Andura Thinners T66 are flammable. Keep away from sources of ignition. In the event of fire, extinguish with CO2 or foam. Do not use a water jet.

## Flash Points

Andura Classic Primer: > 38°C  
Andura Thinners T66 > 38°C

For further information, refer to the safety data sheet.

## QUALITY MANAGEMENT

Andura Coatings has been a British Standards approved company since 1992. The Andura Quality Management Systems have been assessed and approved by BSI and conform to ISO 9001: 2015.

## DISCLAIMER

The advice and information provided in this data sheet is given in good faith, but carries no guarantee or acceptance of responsibility. This data sheet becomes invalid as soon as a new edition has been issued. Please check with Andura Coatings that you have the latest edition.

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Issue 11/22



FM 663919