



ANDURA PRO-FLEX

High performance, crack-accommodating, elastomeric, pure acrylic protective and decorative coating for concrete and masonry.

Uses

Andura Pro-Flex has been specifically formulated for the protection and decoration of masonry and concrete facades. It is especially useful where there is a probability of subsequent cracks appearing in the substrate, or cyclic crack movement, and is equally effective in protecting other cementitious substrates and masonry. Pro-Flex exhibits excellent breathability.

Advantages

A truly inherent elastomeric coating with excellent crack-accommodating and recovery properties, even at extremes of ambient temperature.

Excellent breathability

UV and weather resistant for long-term preservation of protective properties and appearance.

Water based.

Description

Andura Pro-Flex is a single component, water based, pure 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.

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.

Technical Data

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

Coating Properties

Pigment Volume Concentration	42.0%
Volume Solids	50.4%
Weight Solids	65.3%
Density	1.45
pH	8.2 – 8.7
Syneresis	None
VOC (g/L)	<5.0

Film Properties

Crack bridging resistance (mm)

at -10°C :	1.5
at +23°C :	1.2

Water vapour permeability (m)

Sd :	0.7
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Elongation (%)

at - 10°C	305
at + 23°C	320

Building Regulations fire rating:

Class 0

Specification Clause

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

Application Instructions

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.

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 Andura Pro-Flex and the existing coating.

In order to produce a continuous coating of Andura Pro-Flex, 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 Andura Pro-Flex system, it is essential that the correct rates of application are achieved.

All prepared surfaces shall receive one coat of Andura Classic Primer and two coats of Andura Pro-Flex topcoat.

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 of Andura Classic Primer and Pro-Flex shall only be undertaken in the absence of rain, snow and damp weather and when such conditions will exist for an ensuring 24 hour period. Ambient and/or background temperatures shall be above 5° and below 35°C and maintained for a minimum of 24 hours after application.

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 overcoated with Andura Pro-Flex topcoat until the surface is completely dry. If not overcoated after 4 weeks, re-application of primer shall be carried out.

Andura Pro-Flex 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.

The first coat shall be allowed to dry for a minimum of 16 hours and longer at low temperatures, before the second application. As a guide, the first coat shall be firm to the touch and capable of receiving the second coat without disruption.

The second coat of Andura Pro-Flex 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.

Cleaning

Andura Classic Primer should be removed from tools and equipment with Andura Thinners T66 immediately after use. Dried material can only be removed mechanically.

Andura Pro-Flex should be removed from tools and equipment with clean water immediately after use. Dried material can only be removed mechanically.

Limitations

The Andura Pro-Flex System has been formulated for application to clean and sound masonry and concrete.

Where application over existing coatings or paints is required, trials should be undertaken to ensure compatibility and bond retention between the underlying coating and the substrate and between Andura Pro-Flex and the underlying coating.

The Andura Pro-Flex shall not be applied in windy conditions where early-age windborne contamination may occur.

Estimating

Supply

Andura Classic Primer:	20 litre pails
Andura Pro-Flex:	20 litre pails
Andura Thinners T66:	5 litre cans

Application Rate

Andura Classic Primer:	0.20 – 0.25 litres per square metre.
Andura Pro-Flex:	0.20 – 0.25 litres per square metre.

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.

Andura Pro-Flex should be protected from frost.

Precautions

Health and Safety

Andura Classic Primer and Andura Pro-Flex should not come into contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins and solvents. Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provides additional skin protection. In the case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting. Observe all precautionary notices on the container. Further information can be obtained from the safety data sheet.

Fire

Andura Pro-Flex 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 is a British Standards approved firm and has been since 1992.

Andura's Quality Management Systems have been assessed and approved by BSI and conform to ISO 9001: 2000.

Disclaimer

The information given in this data sheet is for guidance only. Any person using these products without first making further enquiries as to the suitability of the product for the intended purpose does so at his own risk and we can accept no liability for the performance of the product, nor for any loss or damage, other than death or personal injury resulting from our negligence, arising out of such use. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of product development.

Andura Coatings Ltd
20 Murdock Road
Bicester
Oxfordshire OX26 4PP

Telephone: 01869 240374
Facsimile: 01869 240375
e-mail: info@andura.co.uk
website: www.andura.com

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