

ANDURA

Pro-Flex

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

USES

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

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.

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.

TYPICAL 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

Elongation (%)
at - 10°C 305
at + 23°C 320

*Note: this data does not constitute a specification

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

PREPARATION

All surfaces shall be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss and algal growth, latices, 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 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 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. Andura Pro-Flex will become dry and re-coatable after

approx. 2-4 hours (20°C – 65% relative humidity).

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.

When the first coat is fully dry, 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.

EQUIPMENT

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

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. Pro-Flex is not suitable for application onto lime render finishes. 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. Coating of parapet walls, free-standing walls and retaining walls below ground level damp proof course is not recommended. In these circumstances, it is often not possible to prevent excessive moisture penetration and subsequent coating failure.

ESTIMATING SUPPLY

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

APPLICATION RATE PER COAT

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 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

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.

FLASH POINT

Andura Classic Primer > 38°C

Andura Thinners: > 38°C

QUALITY MANAGEMENT

Andura Coatings has been a British Standards approved company since 1992. Andura's Quality Management Systems have been assessed and approved by BSI and conform to ISO 9001: 2008.

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.

Andura Coatings
20 Murdock Road
Bicester
Oxfordshire OX26 4PP

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



Issue 11/22

