

Technical Data Sheet



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Replaces July 2007

FLEXICOTE ELASTOMERIC WATERPROOF COATING

Specification & Tech Data:

GENERAL

Nuplex Flexicote is a high build exterior coating system specifically designed to provide a flexible waterproof coating to masonry and other substrates.

1. MANUFACTURE OF MATERIALS

All materials shall be produced, supplied or specified by Nuplex Industries Ltd. To avoid incompatibility of component materials it is essential that Nuplex technical staff be consulted before any product other than those specified is used.

2. FINISH OPTIONS

Many finish options are available.

- 2.1 Smooth finish – waterproof coatings.
- 2.2 Roller finish – hides minor defects.
- 2.3 Textured finish:

- a) Self-Textured (aggregate)
 - Fine (J61 grade) or
 - Medium (CPG grade) or
 - Coarse (WOO grade)

These textures may vary from light to heavy depending on the spray application method.

- b) Pretextured
Using pre sprayed cement based textures. Matrix, hopper sprayed, is a good texture base.

- 2.4 The contractor is to provide sample and on site prepared sample for approval prior to undertaking the contract.

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3. **GLAZE**

Flexicote is glazed with coloured glaze Flexiglaze (low sheen).

4. **COLOUR**

Flexicote is available in a wide range of colours. Deep colours are not recommended. Refer to the Nuplex colour charts for advice.

5. **SURFACE PREPARATION**

It is the licensed contractors responsibility to inspect all areas which are to receive the Flexicote coating and report and unsatisfactory conditions to the main contractor. Listed below are detailed specifications for preparing of various substrates.

5.1 **MASONRY (BLOCKWORK), BRICKS, CEMENT PLASTER**

SEALER: Nuplex Duraseal or Crystal seal

Flushing of Substrate

Textured coatings when applied to pointed bricks or blockwork will follow the mortar pattern of the substrate. This type of finish can be very effective where desired, however where a flush finish is desired the substrate should be flushed .

Cementitious surfaces shall be cured for a minimum of 28 days and be dry prior to coating.

Control Joints

Joints in sheets shall be expressed and waterproofed separately and prior. Construction or expansion joints should be filled with a suitable elastomeric sealant applied in accordance with manufacturers recommendations.

Sealant should be installed after the completion of coating. If overcoating sealants check with Nuplex Construction Products for compatibility

5.2 **PRECAST, SITUCAST CONCRETE**

SEALER: Nuplex Crystal Seal

Insitu concrete shall be finished to NZS 3114:1987 F5 finish or better. Any defects or hollows shall be made good with Nuplex Surfapatch. Control joints – as above.

5.3 **FIBRE CEMENT BOARD**

SEALER Nuplex Crystal Seal

5.4 **PLYWOOD (EXTERIOR GRADE ONLY)**

SEALER: Nuplex Aquaguard 101

Plywood must be thoroughly sealed (including edges and back) prior to fixing. Any nail holes, defects etc should be filled with a suitable exterior flushing compound in accordance with manufacturers instructions.

5.5 **OTHERS**

Refer Nuplex Industries Ltd for recommendations.

6. APPLICATION

In all instances a minimum film build of 260 microns is to be obtained.

6.1 FIBRECEMENT SHEET

- a) Apply one roller coat of Crystal seal at 8m²/litre to all areas including joints.
- b) Joints in sheets shall be expressed and waterproofed separately and prior.
- c) Apply Nuplex Flexicote (colour -----) at 4m²/litre by airless spray or roller.
- d) Apply Nuplex Textured Flexicote by spray at 2m²/litre
The specified texture is:
- e) Apply Nuplex Flexiglaze (colour -----) Low sheen, by spray or roller at 8m²/litre.

6.2 MASONRY BLOCK

- a) Apply Nuplex Duraseal at 7m²/litre.
- b) Apply two coats of Nuplex Flexicote (colour -----) at 4m²/litre/coat
- c) Apply one coat Nuplex Flexiglaze (colour -----) low sheen at 6m²/litre.

6.3 PRECAST/TILT SLAB

- a) Apply Nuplex Crystal Seal by roller at 8m²/litre.
- b) Apply Nuplex Flexicote (colour -----) at 4m²/litre.
- c) Option (i) smooth: Apply second coat Nuplex Flexicote at 4m²/litre.
Option (ii) textured: Apply textured Flexicote by spray (texture -----) at 2m²/litre.
- d) Apply one coat of Nuplex Flexiglaze by spray or roller (colour -----) low sheen, at 7m²/litre.

6.4 PRETEXTURED FLEXICOTE

- a) Apply appropriate sealer as above.
- b) Install jointing as appropriate as above.
- c) Apply by hopper gun Nuplex **pretextured** finish to specified texture.
- d) Apply two coats of Nuplex Flexicote (colour -----) at 4m²/litre/coat
- e) Apply one coat Nuplex Flexiglaze (colour -----) low sheen, at 6m²/litre.

7. PRODUCER STATEMENT AND GUARANTEE

Nuplex Flexicote is guaranteed for 5 years from the date of completion providing regular inspections are undertaken and reglazed as appropriate. Specifically excluded is cracking in substrates, which exceeds the movement capability of the Flexicote system.

FLEXICOTE:

TYPICAL FEATURES /PROPERTIES:

- FLEXICOTE is a pure acrylic, elastomeric high build coating for exterior wall application.
- Can be applied as a smooth finish, embossed, or as a rough-cast texture.
- May be overglazed where soiling is a problem.
- Excellent flexibility.
- Excellent exterior durability.
- Excellent weatherproofing properties.
- Non-flammable.
- Non-toxic.

- Low odour.
- Total solids content: 67%
- Volume solids: 52%
- S.G.: 1.5kg/litre
- Moisture vapour permeability B.S. 3177:1959 ; 230gms mil/m²/24hours
- Flexibility: ASTM D522/60 Conical Mandrel Bend Test
3mm bend – pass
- Elongation: To ASTM D522/60 in excess of 20%
- Finish: Low sheen
- Spread of fire CRF: Acceptable solution
- BS5252 colours.
- Special colours to order. Light to medium only
- Caution: use of dark colours on fibrecement sheets is not recommended by the sheet suppliers.

SUGGESTED USES:

- Coating of commercial and residential building exteriors (both new and existing) of concrete, plaster, brick, concrete blocks, metal cladding and exterior grade timber sheeting.
- Weatherproofing.
- Texturing.

Limitations:

- Flexicote will crack over sheet joints as the sheets expand and contract over time.
- Do not use over joints, cracks, construction joints without specific design and treatment.

NOT RECOMMENDED:

- Continuous immersion.
- Areas subjected to chemical or physical attack.
- Areas subjected to dirt polluted atmosphere unless glaze applied.
- Dark colours.

APPLICATION METHOD: Brush, roller, conventional or airless spray.

COVERAGE RATES:

Smooth surfaces: 4m²/litre/coat – 2 coats
 Rough surfaces: 2m²/litre/coat – 2 coats
 Number of coats: 2 recommended

TEXTURING: Flexicote may be mixed with aggregates (J61, CPG, WOO grades) to provide a texture finish.

FILM BUILD:

(TOTAL) Wet: 500 microns (.020")
 Dry: 260 microns (.010")

THINNING: Clean potable water, but not recommended.

DRY TIMES:

(20°C 50% RH) Touch dry: 2 hours
 Recoat: 3 hours
 Overglaze: 24 hours

SHELF LIFE: 24 months in unopened containers.

PACKAGING: 15 litre polypails

FLASH POINT: None

