

Construction Products Limited

HIGHBUILD 200

FIBRE - REINFORCED ELASTIC COATING

ACRYLIC ELASTOMER LIQUID MEMBRANE

DESCRIPTION: Liquid applied, seamless mastic with an outstanding balance of ease of use, elastic recovery, driven rain resistance, and long term durability. **HIGHBUILD 200** is an extremely effective semi-elastic high build wall coating, with a high degree of initial crack filling and bridging given by the contained short-strand fibre reinforcement - its principal use is for seamless overcoating without preliminary filling of otherwise stable surfaces but with cracks up to 1mm wide. The all-acrylic resin nature of the product provides an unlimited choice of aesthetic finish, and unsurpassed ultraviolet and weather durability.

- Excellent tensile strength, true stretch and recovery for permanent crack bridging without wrinkling or rupture.
- Total and permanent resistance to wind driven rain.
- Self-crosslinking, for minimal surface dirt pickup while maintaining extendibility across all ambient temperature extremes.
- In-film biocidal protection to restrict degradative mould and fungus growth.
- Full recoatability and ease of maintenance and repair.
- Fundamentally high adhesion to all common building material surfaces.
- Barrier properties sufficient to prevent or halt concrete degradation due to carbon dioxide, chloride ion or "acid rain" ingress.
- True acrylic polymer technology with superior longevity and durability of key performance parameters.
- Waterborne for ease and safety of use and cleanup, and free from gross solvent hazard and pollution.
- Standard finish is an aesthetically pleasing satin gloss with a slight surface texture. Colour choice is unlimited although light

colours are recommended for lower surface temperature induced stress.

HIGHBUILD 200

The properties of this product are such to allow simple, environmentally friendly and cost effective systems for weatherproofing over cracked but stable substrates with minimum preparation, for example settled concrete walls or solid plaster with gross shrinkage cracking - Note that due to the contained fibre reinforcement total movement capability is necessarily constrained and for known "live" moving crack or critical concrete repair situations then more detailed preparation and use of or final overcoating with more positively elastic **HIGHBUILD 300** is recommended.

Prepare the substrate and fill cracks wider than 1mm with either polymer cement or a paint-compatible sealant. Apply by roller in a minimum of two coats to total dry film build 200 micrometres - each coat 5m² per litre.

TYPICAL PROPERTIES: (Wet Products):

Specific Gravity: 1.35

Packaging: 20 Litre resealable plastic pails.

Shipping Weight: 28 Kgs.

Shelf Life (unopened pails): Minimum 12 Months

Volume Solids: 50 %

Practical Spread Rate: 2.5m² Per Litre after two coats.

Viscosity: (Brookfield 6/10/200 C) 30,000 centipoise.

Safety: Non-Flammable. Alkaline-avoid eye and skin contact.

HIGHBUILD 200

Construction Products Limited

DRY FILM

Recommended Dry Film Build: 200 micrometres

Gloss & Colour: Low satin gloss with slight surface texture. Colour choice unlimited.

Elongation: @ 20°C = 20 % minimum.

Tensile Strength: 0.5 MPa.

IMPORTANT NOTE

This product as supplied by **Construction Products Limited** is warranted to conform to those physical properties listed in the Typical Properties section of this information sheet. Otherwise the information presented including that on suggested areas and methods of use is in good faith only and is specifically without recommendation or guarantee as to particular suitability. It is the responsibility of the purchaser to satisfy itself that the product is both fit for the purpose intended and that their use of the product can and does achieve that purpose in any particular instance or condition. Usage rates are presented as an initial guide only and do not account for wastage or substrate or build variations.

Jan 04

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HIGHBUILD 300

SEAMLESS ELASTIC COATING

ACRYLIC ELASTOMER LIQUID MEMBRANE

DESCRIPTION: Liquid applied, seamless mastic with an outstanding balance of ease of use, elasticity, driven rain resistance, and long term durability. This product has been developed particularly for use in concrete repair and protection systems and in critical waterproofing situations where inherent high elasticity and live crack bridging ability provides a positive insurance preserving weather tightness against ongoing substrate cracking problems. At the same time the all-acrylic resin nature of the product provides an unlimited choice of aesthetic finish, and unsurpassed ultraviolet and weather durability. A principal quality is "B" value, or "bridging potential" against new cracks as they may form in the substrate underneath the coating - **HIGHBUILD 300** has a "B" value minimum of 6, which allows for a new crack to form of width up to 6 times the dry film thickness of the coating without rupture of the coating itself - or up to 1.5mm wide at specified dry film build.

- Excellent tensile strength, true stretch and recovery for permanent crack bridging without wrinkling or rupture.
- Total and permanent resistance to wind driven rain.
- In-film biocidal protection to restrict degradative mould and fungus growth.
- Self-crosslinking, for minimal surface dirt pickup while maintaining extendibility across all ambient temperature extremes.
- Full recoatability for ease of maintenance and repair.
- Barrier properties sufficient to prevent or halt concrete degradation due to carbon dioxide, chloride ion or "acid rain" ingress.
- True acrylic polymer technology with superior longevity and durability of key performance parameters.

- Waterborne for ease and safety of use and cleanup, and free from gross solvent hazard and pollution.
- Standard finish is an aesthetically pleasing satin gloss - colour choice is unlimited.

TYPICAL PROPERTIES:

Specific Gravity (Wet): 1.35

Packaging: 20 litre resealable plastic pail.

Shipping Weight: 28 Kgs.

Shelf Life (unopened pails): Minimum 12 Months.

Volume Solids: 50 %

Practical Spread Rate: Maximum 2m² Per Litre
(2 coats, each at spread 4m² per litre per coat)

Application Temperature Range: 10° to 35°C

Viscosity: (Brookfield 6/10/200 C) 60,000 Centipoise.

Safety: Non-Flammable. Alkaline-avoid eye and skin contact.

DRY FILM:

Recommended Dry Film Build: 250 micrometres.

Gloss & Colour: Satin.

Elongation: @20°C = 300 % minimum.

B value (bridging factor): 6 times film thickness

Progressive Crack Bridging: 1.5 mm minimum
@250um dry build

Tensile Strength: 0.3 MPa.

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Water Pondage (7 days): No water transmission.

Water Swelling: 24 hours 20 %

Water Pondage (7 days): No water transmission.

Water Vapour Permeability: Equivalent Air Layer Sd <0.5 metres (maximum 2 metres required).

Carbon Dioxide Diffusion: Equivalent Air Layer Sd >350 metres (minimum 50 metres required).

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Jan 04

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APPLICATION:

The properties of this product are such to allow simple, environmentally friendly and cost effective systems for weather and waterproofing of concrete. **HIGHBUILD 300** forms a permanent elastic skin that gives a tough and long wearing surface. Paying particular attention to the requirement that the concrete must be clean, dry and free of any curing agents or release agents and appropriately primed, and then progressively coated to give a final high build protective coating.

Priming: Concrete – Ensure the concrete has had a minimum of 28 days cure. Bag any “blow holes” with **Mesh Plaster** and allow to cure. Apply by brush or roller **RFU Solvent Primer**.

BASE APPLICATION: Once the **RFU Solvent Primer** has cured the **Highbuild 300** may be applied by either spray, roller or brush to a maximum wet film build of 400 micrometers. Allow to cure.

TOPCOATING: Apply **Highbuild 300** undiluted by spray, roller or brush in wet film build of 100 micrometre thick so as to achieve a final dry film build of 250 micrometers.

Once cured sufficient to touch, additional coats can be applied if the required dry film thickness is to be greater.

Not for use in water retaining structures.

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