

## SpecElastic Façade & Roof

Water based solar UV curing exterior wall & roof coating

A one component, water based, new generation solar-UV-curing technology, 100% pure acrylic exterior wall & roof coating with a smooth finish which offers excellent exterior durability, water resistance, dirt pickup resistance, mechanical stability, and elasticity (including crack bridging).

### Intended Uses:

SpecElastic Façade & Roof coating is an anti-carbonation coating, capable of crack bridging, CO2 diffusion and water vapour transmission.

It is highly UV resistant and colour fade resistant allowing the coating to be tinted to virtually any colour. SpecElastic Façade & Roof is used for new construction direct to suitably primed masonry, or for renovation of tightly adherent existing acrylic wall coatings.

SpecElastic Façade & Roof can be used on walls and roofs. It is not intended for interior walls. SpecElastic Façade & Roof is highly resistant to driving rain & when used in combination with a suitable primer like SpecSil Breathable Primer WB, the coating system allows the substrate to breathe, while not allowing water in, the result is walls & roofs which stay dry.

SpecElastic Façade & Roof can be used on sloped horizontal surfaces as a liquid waterproofing membrane exceeding 0.5 mm thick.

### Properties:

- Outstanding exterior durability and UV resistance.
- Resistant to microbial growth & mildew, easy to clean.
- Long lasting, low temperature flexibility and crack resistance to lengthen the life of the roof.
- High resistance to dirt pick-up for long term aesthetic retention.
- Very good adhesion to multiple roofing substrates i.e. concrete, galvanized sheets, polyurethane, foams etc.
- Excellent protection against carbonation.
- Excellent protection against environmental degradation.
- Forms a seamless waterproofing barrier.
- Retains flexibility and elasticity.
- Excellent exterior durability.
- One component, easy to apply by spray or roller.

### Physical Test Results:

| Performance Test        | Results              | Method           |
|-------------------------|----------------------|------------------|
| Elongation              | >250%                | ASTM D 412       |
| Pull Off Strength       | >2 N/mm <sup>2</sup> | ASTM D 4541      |
| Crack Bridging          | >1.8mm               | ASTM C836:95     |
| CO2 Diffusion           | >50m                 | EN 1062-6:2002   |
| H2O Vapour Transmission | <4m                  | TP/N950/09/16074 |

### Waterproofing: Liquid Waterproofing Coating

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## Technical Data:

|                        |                                                     |
|------------------------|-----------------------------------------------------|
| Colour                 | Any colour                                          |
| Finish                 | Low sheen                                           |
| Density                | 1.34 Kg/ Litre (On base)                            |
| Volume Solids          | 45%                                                 |
| Mass Solids            | 57%                                                 |
| Typical Film Thickness | 360µm DFT (In two coats)                            |
| Theoretical Coverage   | 1.25 m <sup>2</sup> / Litre @ 380µm DFT             |
| Method of Application  | Brush, roller, or airless spray                     |
| Number of Coats        | Should be applied in two coats to achieve total DFT |
| Viscosity              | 140 KU                                              |
| Shelf Life             | 24 months                                           |

## Drying Information:

|                                           | 0°C       | 5°C | 10°C | 25°C   | 30°C | 40°C |
|-------------------------------------------|-----------|-----|------|--------|------|------|
| Touch Dry                                 | -         | -   | -    | 45 min | -    | -    |
| Hard Dry                                  | -         | -   | -    | 24 hrs | -    | -    |
| <b>Overcoating Data – See Limitations</b> |           |     |      |        |      |      |
| Substrate Temp.                           | 0°C       | 5°C | 10°C | 25°C   | 30°C | 40°C |
| Minimum                                   | -         | -   | -    | 6 hrs  | -    | -    |
| Maximum                                   | Extended* |     |      |        |      |      |

### Note:

\* 1-week full cure. Do not apply if rain is imminent.

## Systems:

SpecElastic Façade & Roof is to be applied to a suitably primed surface. Suitable substrates would include but are not limited to: concrete, metals, wood, tiles, etc.

The below table is a guideline specification for different substrate to achieve different life spans.

| Substrate                                                                  | Primer                                              |
|----------------------------------------------------------------------------|-----------------------------------------------------|
| Cementitious Substrates                                                    | SpecSil Primer Breathable WB                        |
| Brick & Stone                                                              | SpecSil Primer Breathable WB                        |
| Ceramic Tiles                                                              | Epoxy WB GP Primer White @ 10m <sup>2</sup> / Litre |
| Wooden Substrates                                                          | Dilute SpecShield with 5% water                     |
| Metals – Galv, Ferrous, Lead, Copper, Aluminium, brass, or stainless steel | SpecNox Anti-Corrosive WB                           |
| Old Coatings                                                               | Check for adhesion & compatibility                  |

## Surface Preparation:

Remove any fungal growth or algae with Fungicidal wash. Leave on the surface for approximately 1 hour and then scrub with a hard bristle brush to remove all dead growth. Rinse thoroughly and repeat if necessary. Allow to dry.

### Plasters, Lime Cement Mortars & General Cement Mortars

Shall have a compressive strength of 1.5 N/mm<sup>2</sup>: solid plasters with normal absorbency and highly porous or powdering surfaces should be primed.

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### Concrete

Remove all residues of separating agents from formwork oil residues and chalking residues by means of high-pressure water jetting and degreasing.

### Sound/Stable Existing Coatings

Matt, slightly absorbent coatings can be coated without a preliminary preparation. Roughen/sand glossy surfaces and enamel coatings.

### Unstable Existing Coatings

Carefully remove unstable coatings of enamel, dispersion, emulsion paint or plasters. Prime slightly absorbent, smooth surfaces.

### Application:

|               |                                                                                                                                                                                                                                                                             |                           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Mixing        | Material is supplied in plastic containers. This is a one component product and does not require a hardener.<br><br>Agitate/stir the product well before use to ensure a homogeneous mix and no settlement of pigments.<br><br>No thinners should be added to this product. |                           |
| Application   | SpecElastic Façade & Roof can be applied using airless spray equipment, brush or roller. It should always be applied in two layers to achieve the correct total thickness. If the product needs to be thinned, a maximum 5% with water is acceptable.                       |                           |
| Airless Spray | Minimum 180 bar, minimum 17 thou tip                                                                                                                                                                                                                                        |                           |
| Thinner       | Typically, not thinned, but can be thinned up to 5% with water for spray ability. Thinning 5% with water will result in a DFT 5% lower. Apply 5% extra material.                                                                                                            |                           |
| Cleaner       | SA65 Thinner                                                                                                                                                                                                                                                                | For dry paint & equipment |
|               | Water                                                                                                                                                                                                                                                                       | For wet paint             |
| Work Stoppage | Do not allow material to remain in application equipment after use, thoroughly flush and clean all equipment with <b>water</b> . Seal the containers tightly after use to prevent drying out.                                                                               |                           |
| Clean Up      | Clean all equipment immediately after use with <b>water</b> . It is advisable to periodically clean application equipment during the course of the working day.                                                                                                             |                           |

### Environment:

|         | Surface Temperature | Ambient Temperature | Relative Humidity |
|---------|---------------------|---------------------|-------------------|
| Minimum | 10°C*               | 10°C                | No lower limit    |
| Maximum | 35°C**              | 45°C                | 95%               |

\* Or 3°C above the dew point

\* In the winter months due consideration must be given to the early onset of condensation formation early afternoon and application should be discontinued before this time.

\*\* Higher temperatures result in reduced sag resistance and faster cure.

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## Limitations:

- It should be noted that the success of a waterproofing system is dependent on the skill of the person applying the products.
- Heavy wet film thicknesses, exceeding 700µm WFT should be avoided as mud cracking can occur.
- Material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

## Pack Size:

5 & 20 Litre.

## Storage:

- Shelf Life: 24 months at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.

## Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.