

## J31 LIQUID APPLIED WATERPROOF COATINGS

To be read with Preliminaries/General conditions.

### TYPE(S) OF COATING

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#### 110 COLD DECK COATING

- Substrate: Existing flat roofing system (refurbishment)
  - Preparation: Surfaces must be:
    - Sound and secure
    - Smooth
    - Completely dry
    - Completely free from loose material
    - Completely free from organic growth
    - Completely free from dust and grease, or any other contaminants
    - Properly drained and free from standing water
  - Flat roof coating system: Rooflock Twelve for Flat Roof Refurbishment
    - System manufacturer: Rooflock  
Pavilion View  
Newby Road  
Stockport  
SK7 5DA  
UNITED KINGDOM  
T: +44 161 956 2400  
W: [www.rooflock.com](http://www.rooflock.com)
    - Primer reference: (requirement subject to survey)
      - Rooflock Twelve Metal Primer (for use on bare metal only)
      - Rooflock Epoxy Primer
      - Rooflock PVC Primer
    - Coating reference: Rooflock Twelve Colour: Grey RAL 7047
    - Accelerator reference: Rooflock Twelve Accelerator
    - Reinforcement reference:
      - Rooflock Twelve Chopped Strand Matting 225gsm
      - Rooflock Twelve Polyester Fleece 100gsm
- Suitable substrates:
  - Bitumen
  - Asphalt
  - PVC Single Ply (reinforced)
  - Plastisol based coatings (weathered)
  - Weathered galvanised steel
  - Steel
  - Aluminium – contact Rooflock for advice
- Other surfaces: For preparation and priming of any other surfaces not listed above please refer to Rooflock technical department for guidance.
- Installation: The system should only be installed by Rooflock approved contractors and installers and applied strictly in accordance with the Rooflock Twelve Specification and Application Instructions.
- Surface Protection: Not required for standard application.

## PERFORMANCE

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### 210 DECK PERFORMANCE

- Note Preparation requirements above (section 110)
- Moisture Survey:  
Rooflock Twelve must only be applied to substrate build-ups containing 5% moisture or less. It is the responsibility of the roofing subcontractor to ensure the moisture content of the substrate build-up does not exceed 5%.

## PRODUCTS

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### 353 COATING

- Type: Polyurethane
- Manufacturer: Rooflock
  - Primer reference: (requirement subject to survey)
    - Rooflock Twelve Metal Primer (for use on bare metal only)
    - Rooflock Epoxy Primer
    - Rooflock PVC Primer
  - Coating reference: Rooflock Twelve Colour: Grey RAL 7047
  - Accelerator reference: Rooflock Twelve Accelerator
  - Reinforcement reference:
    - Rooflock Twelve Chopped Strand Matting 225gsm
    - Rooflock Twelve Polyester Fleece 100gsm

## EXECUTION GENERALLY

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### 410 ADVERSE WEATHER

- Do not apply coatings:
  - If the air temperature is outside the range of 5°C – 30°C, unless otherwise permitted by Rooflock.
  - On damp surfaces
  - In damp or cold conditions which could cause surface condensation; during frost or if there is a risk of rain.
- Unfinished areas of roof: Keep dry.

### 420 SUITABILITY OF SUBSTRATES

- Substrates generally:
  - Sound and secure
  - Smooth
  - Completely dry
  - Completely free from loose material
  - Completely free from organic growth
  - Completely free from dust and grease, or any other contaminants
  - Properly drained and free from standing water

- Rooflock Twelve must only be applied to substrate build-ups containing 5% moisture or less. It is the responsibility of the roofing subcontractor to ensure the moisture content of the substrate build-up does not exceed 5%.
- Works:
  - Bitumen and asphalt substrates:
    - The complete roof surface must be primed using Rooflock Epoxy Primer.
    - Coverage for most substrates is typically 200-250g per m<sup>2</sup> (80-100m<sup>2</sup> per 20kg tin).
    - Very absorbent surfaces may require additional coverage.
  - PVC single ply substrates:
    - The complete roof surface must be primed using Rooflock PVC Primer.
    - Coverage for most substrates is typically 150-200g per m<sup>2</sup>. (25-30m<sup>2</sup> per 5 litre tin).
  - Metal substrates:
    - Apply Rooflock Metal Primer to the complete prepared surface and upstands at a rate of 150ml per m<sup>2</sup>. (30m<sup>2</sup> per 5 litre tin)
  - Detailing and penetrations:
    - All corners and penetrations should be waterproofed with Rooflock Twelve at a rate of 2.5kg per m<sup>2</sup>, reinforced using either Rooflock 300gsm chopped strand matting or Rooflock non-woven polyester reinforcing scrim.
    - In accordance with the British Standard Code of Practice BS 6229, the Rooflock Twelve system must be terminated at a minimum of 150mm up all vertical surfaces, and a Rooflock GRP termination bar mechanically fastened to the wall to protect the leading edge of the coating.
  - Main Coat (Wet-on-Wet)
    - After the roof surface has been primed, Rooflock Twelve is applied evenly to the prepared roof surface at a rate of 2.4kg per m<sup>2</sup> using a wet-on-wet method with Rooflock non-woven polyester reinforcing scrim.
    - When using the wet-on-wet technique Rooflock Twelve Accelerator must be used to accelerate cure of Rooflock Twelve.
    - Cure time – approx 6-9 hours
  - Main Coat (Wet-on-Dry)
    - After the roof surface has been primed, a base layer of Rooflock Twelve is applied evenly to the prepared roof surface at a rate of 1.2kg per m<sup>2</sup> using a wet-on-dry technique with Rooflock 300gsm chopped strand reinforcing mat. If desired this base coat can be accelerated using Rooflock Twelve Accelerator to permit a recoat time of approx. 3 hours.
    - Once the base layer has cured, a further top layer of Rooflock Twelve at a rate of 1.2kg per m<sup>2</sup> is applied. Total coverage: 2.4kg per m<sup>2</sup>
    - Cure time – approx 12 - 18 hours
  - Skid Inhibiting Walkways:
    - Once the Rooflock Twelve Main Coat and all detailing areas have cured, and max. 48 hours after application, a layer of Rooflock Twelve is applied at a rate of 0.5-1kg per m<sup>2</sup> to the required walkway area.

Silica sand (granule size 0.1-0.3mm) is then broadcast into the wet coating to approx. coverage 0.5-1kg per m<sup>2</sup>. Once the loose sand has been removed, a final layer of Rooflock Twelve HR is applied at a rate of 0.5kg per m<sup>2</sup>.

**515 EXISTING FLASHINGS**

- General: Remove or raise to facilitate cleaning of substrate and application of coating system
- Damaged: Replace with new as required

**565 EXISTING GUTTERS/OUTLETS**

- Ensure free flowing and free of dirt, debris and build-up of previous coverings/ coatings.

## **COMPLETION**

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**910 INSPECTION**

- Coating surfaces: Check when cured for discontinuities.
  - Defective Areas: Apply additional layer of coating.

**940 COMPLETION**

- Gutters: Clean.
- Outlets: Clear.
- Flashings: Correctly attached or reinstated as required.
- Work necessary to provide a weathertight finish: Complete.
- Storage of materials on finished surface: Not permitted.
- Completed coatings: Protect against damage