



# FastCoat TDS

REF: PJ1024FC

## Single Component Thixotropic Moisture Curing Liquid Polyurethane Membrane

### Product:

FastCoat

### Substrates:

Non-Ferrous Metal  
Ferrous Metal  
Glass Reinforced Polyester (GRP)  
Single-Ply (PVC)  
Glass  
Plastic  
Concrete  
Brickwork  
Fibre Cement  
Old Coatings  
Timber  
Felt  
Asphalt

### Application Fields:

Waterproofing system for:

- Roofs, Terraces and balconies.
- Industrial Roofing.
- Renewing Old Membranes.

### Coverage Rates:

FastCoat 10-year at 2kg per m<sup>2</sup>  
FastCoat 20-year at 2.5kg per m<sup>2</sup>  
FastCoat 25-year at 2.9kg per m<sup>2</sup>

### Dry to Touch Time:

2-4 Hours

### Over Application Time:

Once dry to the touch

### Temperature Limitations:

+5°C to 35°C surface temperature.

### Product Application:

#### Cleaning:

The main pre-requisite is to ensure the surface that is being coated remains free from grease, natural growth, loose / friable material, dirt and dust.

The cleaning of the surface is critical to the successful bond of the membrane to the current roof structure.

LRS recommend using a minimum 2000psi power washer to ensure a sufficient clean.

#### Preparation:

The surface must be dry before and during application.

Cracks and gaps within the existing substrate should be filled using LRS PU Mastic.

Any blisters within the substrate normally indicates moisture under the surface and should be investigated.

All mechanical damage should be made good where necessary.



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## FastCoat Application 20-year:

Existing Details, Terminations and Upstands:

To ensure a durable and effective waterproofing system for a flat roof using FastCoat Pro, it is essential to properly handle existing details, terminations, and upstands. Here are the detailed steps for addressing these elements:

### Materials Needed:

- FastCoat Pro Waterproof coating
- Termination bar
- LRS PU Mastic
- Lead flashing (if applicable)
- Tools for cutting a chase (grinder, hammer, chisel)
- Measuring tape
- Short pile roller or brush
- Clean cloths or rags
- Protective gear (gloves, goggles, mask)
- Sealant gun

Steps for Existing Details, Terminations, and Upstands:

#### 1. Safety First

- Wear protective gear including gloves, goggles, and a mask.
- Ensure good ventilation if working in an enclosed area.

#### 2. Preparation of Existing Details

- **Inspection:** Inspect all existing details,

terminations, and upstands for damage or wear.

- **Cleaning:** Ensure these areas are clean, dry, and free from dust, debris, and grease. Follow the cleaning steps outlined previously if necessary.
- **Repairs:** Repair any damage or deficiencies before proceeding.

#### 3. Ensuring Proper Height for Upstands

- Upstands should be a minimum of 150mm high to prevent water ingress.
- Measure the height and adjust if necessary to meet this requirement.

#### 4. Applying FastCoat Pro Waterproof Coating

- **Priming:** If required, prime the surface as per LRS instructions using MS 2-Part Primer.
- **Coating:** Apply the FastCoat Pro Waterproof coating to the flat roof surface, extending the coating up the upstands to the required 150mm height.

#### 5. Terminating the Waterproofing System

- There are three main methods to terminate the FastCoat Pro Waterproof system: using a termination bar, lead flashing, or cutting into a chase filled with LRS PU Mastic.



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## **Method 1: Using a Termination Bar**

- **Measure and Cut:** Measure and cut the termination bar to fit the length of the upstand.
- **Position the Bar:** Position the termination bar at the top edge of the waterproof coating, ensuring it is at least 150mm above the roof surface.
- **Fasten the Bar:** Secure the termination bar to the wall using suitable fixings.
- **Seal with LRS PU Mastic:** Apply LRS PU Mastic along the top edge of the termination bar to seal it.

## **Method 2: Using Lead Flashing**

- **Measure and Cut:** Measure and cut the lead flashing to fit the length of the upstand.
- **Install Flashing:** Install the lead flashing at the top edge of the waterproof coating, ensuring it covers the termination of the coating.
- **Secure Flashing:** Secure the lead flashing into the brickwork or wall.
- **Seal with LRS PU Mastic:** Apply LRS PU Mastic along the edges of the lead flashing to seal it.

## **Method 3: Cutting into a Chase and Filling with LRS PU Mastic**

- **Cut a Chase:** Use a grinder or chisel to cut a chase (groove) into the wall at the top edge of the waterproof coating, at least 150mm above the roof surface.
- **Clean the Chase:** Clean out the chase to remove dust and debris.
- **Fill with LRS PU Mastic:** Embed the top edge of the waterproof

coating into the chase. Fill the chase with LRS PU Mastic.

## **6. Final Inspection**

- Inspect all terminations and upstands to ensure they are properly sealed and finished.
- Check for any gaps or unsealed areas and address them promptly.

## **Summary:**

### **1. Safety First**

- Wear protective gear.

### **2. Preparation of Existing Details**

- Inspect, clean, and repair surfaces.

### **3. Ensuring Proper Height for Upstands**

- Measure and adjust upstands to a minimum of 150mm.

### **4. Applying FastCoat Pro Waterproof Coating**

- Prime and coat surfaces, extending up the upstands.

### **5. Terminating the Waterproofing System**

- Use a termination bar, lead flashing, or cut into a chase and fill with LRS PU Mastic.

### **6. Final Inspection**

- Ensure all terminations and upstands are properly sealed.

By following these steps, you can ensure that the FastCoat Pro Waterproof coating is properly terminated, providing a durable and watertight finish for your flat roof.



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## FastCoat BaseCoat:

Applying FastCoat Pro BaseCoat with reinforcement matting ensures a robust and durable waterproofing system for your flat roof. Here is a step-by-step guide to help you with this process:

## Materials Needed:

- FastCoat Pro BaseCoat
- 225gsm Reinforcement Matting
- Short pile roller or brush
- Measuring tape
- Protective gear (gloves, goggles, mask)
- Clean cloths or rags
- Mixing stick or mechanical mixer
- Sealant gun (if necessary)

## Steps for Applying FastCoat Pro BaseCoat and Reinforcement Matting:

- 1. Safety First**
  - Wear protective gear including gloves, goggles, and a mask.
  - Ensure good ventilation if working in an enclosed area.
- 2. Surface Preparation**
  - Ensure the surface is clean, dry, and free from dust, debris, and grease.
  - Follow the cleaning and priming steps outlined previously if necessary.
- 3. Mixing FastCoat Pro BaseCoat**
  - Thoroughly mix the FastCoat Pro BaseCoat prior to application. Use a mixing stick or mechanical mixer to ensure uniform consistency.

## 4. Measure and Cut Reinforcement Matting

- Measure the roof area and cut the 225gsm Reinforcement Matting to size.
- Ensure pieces are cut with an extra 50mm on all sides for overlapping.

## 5. Application of BaseCoat

- **First Section:** Start with a manageable section of the roof.
- **Coverage Rate:** Apply the FastCoat Pro BaseCoat at a coverage rate of 1.5kg per m<sup>2</sup>. Use a short pile roller or brush for even application.
- **Embed Matting:** While the BaseCoat is still wet, embed the reinforcement matting into the BaseCoat. Ensure it lies flat and smooth without wrinkles or air bubbles.
- **Overlap Matting:** Overlap adjacent pieces of reinforcement matting by 50mm to ensure a continuous and strong layer.

## 6. Roll Over Matting

- Use the roller to press the matting firmly into the BaseCoat, ensuring good saturation and adhesion.
- Apply additional BaseCoat on top of the matting if necessary to ensure it is fully saturated and covered.

## 7. Repeat Process



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- Move to the next section and repeat the application process, ensuring each piece of matting overlaps the previous one by 50mm.
- 8. Drying Time**
  - Allow the BaseCoat and reinforcement matting to dry, typically 2-4 hours before applying any topcoats or additional layers.
- 9. Clean Up**
  - Clean tools and equipment.
  - Dispose of any leftover materials and containers according to local regulations.
- Ensure 50mm overlap and complete coverage.
- 8. Drying Time**
  - Allow to dry, typically 2-4 hours.
- 9. Clean Up**
  - Clean tools and dispose of waste properly.

By following these steps, you will ensure a thorough and effective application of FastCoat Pro BaseCoat with reinforcement matting, providing a strong and durable waterproofing system for your flat roof.

## Summary:

- 1. Safety First**
  - Wear protective gear.
- 2. Surface Preparation**
  - Clean and prime the surface if necessary.
- 3. Mixing FastCoat Pro BaseCoat**
  - Thoroughly mix the BaseCoat.
- 4. Measure and Cut Reinforcement Matting**
  - Cut matting to size with 50mm overlaps.
- 5. Application of BaseCoat**
  - Apply BaseCoat at 1.5kg per m<sup>2</sup>.
  - Embed matting while BaseCoat is wet.
- 6. Roll Over Matting**
  - Use a roller to press the matting firmly.
  - Apply additional BaseCoat if necessary.
- 7. Repeat Process**

## FastCoat TopCoat:

Applying the FastCoat Pro TopCoat is a critical final step in creating a durable and watertight flat roof. Here's a detailed guide on how to apply the FastCoat Pro TopCoat:

## Materials Needed:

- FastCoat Pro Waterproof
- Short pile roller or brush
- Mixing stick or mechanical mixer
- Measuring tape
- Protective gear (gloves, goggles, mask)
- Clean cloths or rags
- MS 2-Part Primer (if required for reactivation)
- Sealant gun (if needed for any additional touch-ups)

## Steps for Applying FastCoat Pro TopCoat:



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## 1. Safety First

- Wear protective gear including gloves, goggles, and a mask.
- Ensure good ventilation if working in an enclosed area.

## 2. Inspect the BaseCoat

- **Check for Pinholes:** Ensure all pinholes have been filled and the surface is smooth.
- **Clean Surface:** Make sure the surface is clean and free from dust and debris.

## 3. Reactivation of the Surface (if required)

- If the BaseCoat has been left for more than 14 days, you must reactivate the surface using MS 2-Part Primer.
- **Apply Primer:** Apply the MS 2-Part Primer as per LRS instructions and allow it to dry completely before applying the TopCoat.

## 4. Mixing the FastCoat Pro TopCoat

- Thoroughly mix the FastCoat Pro TopCoat before application. Use a mixing stick or mechanical mixer to ensure uniform consistency.

## 5. Application of TopCoat

- **Coverage Rate:** Apply the TopCoat at a coverage rate of 1kg per m<sup>2</sup>.
- **Even Application:** Use a short pile roller or brush

to apply the TopCoat evenly. Ensure consistent thickness and avoid leaving streaks or thin spots.

- **Consistent Strokes:** Apply the TopCoat in consistent, straight strokes to achieve an even finish.

## 6. Drying Time

- Allow the FastCoat Pro TopCoat to dry for 2-4 hours, depending on environmental conditions such as temperature and humidity.

## 7. Final Inspection

- **Even Coverage:** Check the roof to ensure the TopCoat has been applied evenly across the entire surface.
- **Touch-ups:** Perform any necessary touch-ups with additional TopCoat to cover missed spots or thin areas.

## 8. Clean Up

- Clean all tools and equipment used during the application process.
- Dispose of any leftover materials and containers according to local regulations.



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## Technical Data:

Colour	Grey
Specific Weight UNI EN ISO 2811-1	1,46 ± 0,03 g/ml
Viscosity at 20°C UNI EN ISO 2555	25.000 ± 5.000 mPa.s
Solid content EN ISO 3251	83±1% by volume, 87% by weight
Theoretical consumption	2.000 -2500 g/m <sup>2</sup>
Theoretical Thickness	1000-1250 µm
Hardening at 22°C, 50% R.H.	dry to the touch 2-4 hours - insensitive to rain 6 hours - completely cured 10 days
Permeability to carbon dioxide EN 1062-6	Sd > 50 m
Permeability to water vapour EN ISO 7783-2	Sd < 5 m
Capillary absorption and permeability to water EN ISO 1062-3	< 0,1 kg/m <sup>2</sup> · h <sup>0.5</sup>
Adhesion to concrete (traction) EN 1542	> 1,5 MPa
Crack bridging ability EN 1062-7	A method - static: A5 (23) B method - dinamic: B4.2 (23)



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Wear resistance EN ISO 5470-1	Grinder H22- 1000 g, at 1000 rpm < 350 mg
Shock resistance EN ISO 6272	4Nm
Adhesion to wet concrete EN 13578	No swelling, no cracks, no spalling
Tensile strength UNI EN 12311-2	> 6 M Pa
Elongation at failure UNI EN 12311-2	> 600 %
Hardness shore A EN ISO 868	70
Storage	12 months from date of production if stored properly in original, unopened sealed pack- aging, in a dry place at temperatures be- tween +5°C and +35°C.