

Elastex SoLo System

Lead Gutters  
(Waterproofing Only)

**OUTLINE SPECIFICATION**

REF: ELS10208 v1.0

# 1. INTRODUCTION

The following outline specification is based on application of the Elastex SoLo System to lead gutters. Please note that this outline specification is based on preliminary discussions only. We welcome the opportunity to discuss your project further to finalise a proposal that is tailored to your exact requirements.

Please refer to the Elastex SoLo Technical Datasheet for further information in relation to the system.

---

This document is a guide to assist in the production of tender documents only and is not project specific. A site survey is always recommended. It is the responsibility of the client to add and delete clauses as relevant to the contract. Nothing in this proposal or any other literature produced by or on behalf of Polyroof Products Ltd is to be regarded as constituting a contract binding in law between Polyroof Products Ltd and any customer. The only contract which Polyroof will enter into is that contained in the Polyroof guarantee which takes effect only when issued in writing by Polyroof to the customer.

Specimen guarantees are available on request.

## 2. SPECIFICATION SUMMARY

### 2.1. Overview

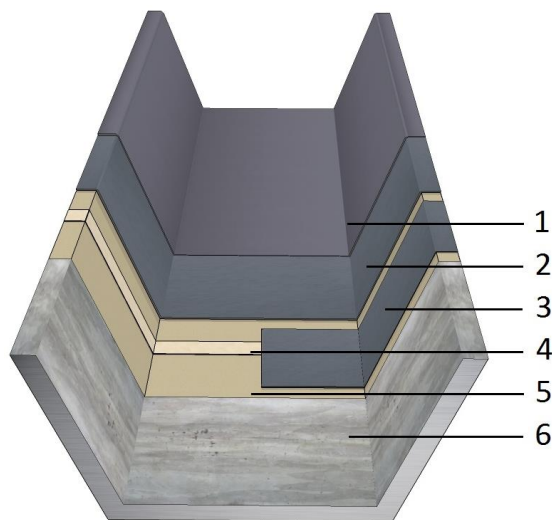
The following outline specification is for a new waterproofing system only. No improvements to thermal performance will be made and any existing condensation problems will remain. Care should always be taken to establish if the existing gutter construction complies with current building regulations standards.

#### 2.1.1. Existing Construction (Assumed)

1. Lead Gutters

NB: Please note that the above is indicative only and subject to confirmation.

#### 2.1.2. Proposed Construction



1. Elastex SoLo Resin 2<sup>nd</sup> Coat
2. Elastex SoLo Resin 1<sup>st</sup> Coat and PolyMat 100
3. Local reinforcements\*
4. Dis-bondment tape to lap joints
5. Elastex SoLo Metal Primer (Twin Pack)
6. Lead gutter

\*Local reinforcements to be Elastex SoLo Resin and 100mm wide PolyMat 100 to lap joints. Elastex SoLo Fibretex may be required on uneven joints.

## 2.2. Structural Preparation

### 2.2.1. Falls & Drainage

This specification utilises existing falls and any problems of standing water will remain. However, you may wish to note that standing water is not detrimental to the Elastex SoLo System.

No provision to improve drainage has been made within this specification. It has been assumed that current drainage capacity is adequate.

### 2.2.2. Surface Preparation

The following assumes that the existing gutter construction is structurally sound. Any defective areas should be removed and replaced.

When preparing lead surfaces for treatment, ensure all precautions are taken to avoid skin contact, ingestion, inhalation, environmental contamination and unsafe disposal of debris etc.

Thoroughly clean down all areas to be treated, removing dirt, debris, surface lying water, mould growth and moss, etc.

Inspect all surfaces to assess soundness of existing substrates including any existing coatings, repairs and any test areas. This is to verify compatibility for the proposed coating system and to assess the need for priming.

Treat any areas of fungal growth or moss with Polykill W Anti-Fungal Wash to ensure all spores are destroyed. Powerwash to remove any residues.

Wet-abrade all lead to be coated to remove oxidation and patination. Dispose of the residues in accordance with current HSE guidelines.

Thoroughly degrease by wiping with standard Elastex Solvent. Allow to dry. Note: Once lead has been prepared oxidation begins immediately, so work in smaller areas and prime within 1 hour of preparation.

For wet or saturated insulation or decking, careful consideration should be given to a complete strip or the installation of permanent roof ventilation. Areas where the insulation or underlying substrate has collapsed or is defective or decayed, should be cut out, repaired and reinstated to provide a good solid base for the coating system.

NB: For preparation of any other surfaces please refer to the current Elastex SoLo Manual issued by Polyroof Products Limited.

## 2.3. Elastex SoLo Application

### 2.3.1. Overview

The Elastex SoLo System consists of reinforced polyurethane resin, cold-applied on site by hand lay giving a seamless, joint-free construction. The system should be applied in accordance with the current Elastex SoLo Manual issued by Polyroof Products Limited.

### 2.3.2. Approved Contractors

Elastex SoLo should only be applied by contractors in possession of a current approval certificate. The contractor must provide an approved applicator to supervise the Elastex SoLo work and the approved applicator must remain on the site until the works are complete. Confirmation of approval can be sought by calling Polyroof Technical Services on 0800 801890. A final inspection shall be carried out by a Polyroof technician prior to a guarantee being issued.

### 2.3.3. Weather Considerations

The system should not be applied if the air temperature is outside the range of 5degC - 35degC. The system must not be applied in damp or cold conditions which could cause surface condensation; during frost or if there is a risk of rain.

### 2.3.4. Pigment Colour

Elastex SoLo is pre-pigmented in Slate Grey. If other colours are required, always consult Polyroof Technical Services for advice regarding determining suitability for the application.

### 2.3.5. Primer Coat

**Lead Sheets:** Elastex SoLo Metal Primer (Twin Pack) at a maximum coverage rate of 5m<sup>2</sup>/litre. Allow to cure.

**Other Surfaces:** For priming of any other surfaces please refer to the current Elastex SoLo Manual issued by Polyroof Products Limited.

### 2.3.6. Detailing

**Local Reinforcements & Lap Bridging:** To all lap joints apply 25mm dis-bondment tape then locally reinforce using Elastex SoLo Resin and 100mm wide PolyMat 100 at a minimum coverage rate of 1.0Litres/m<sup>2</sup> (1.0m<sup>2</sup>/Litre). Allow to cure. (Any un-even lap joints may require a coat of Elastex SoLo Fibretex prior to local reinforcement).

Important – Care should be taken with any lead roof or gutter to ensure that sufficient perimeter ventilation exists to prevent condensation (in accordance with Building Regulations and BS5250). Perimeter abutments should never be sealed as this may reduce natural ventilation and increase condensation risk.

**Other Details:** To any other details requiring local reinforcement apply Elastex SoLo Resin and 100mm wide PolyMat 100. Allow to cure. NB: Apply 25mm dis-bondment tape to any joints subject to movement prior to application of local reinforcement.

### 2.3.7. Elastex SoLo Resin 1<sup>st</sup> Coat Application

Apply Elastex SoLo Resin and PolyMat 100 at a minimum coverage rate of 1.0Litres/m<sup>2</sup> (1.0 m<sup>2</sup>/Litre). Allow to cure. NB: Please note that all coverage rates are indicative only and it is the contractors' responsibility to ascertain the exact coverage rates on site.

### 2.3.8. Elastex SoLo Resin 2<sup>nd</sup> Coat Application

#### 10 Year System Option:

Apply Elastex SoLo Resin at a minimum coverage rate of 0.5Litres/m<sup>2</sup> (2.0m<sup>2</sup>/Litre). Allow to cure.

#### 20 Year System Option:

Apply Elastex SoLo Resin at a minimum coverage rate of 0.75Litres/m<sup>2</sup> (1.33m<sup>2</sup>/Litre). Allow to cure.

NB: Please contact Polyroof Technical Services for details of other options available.

### 2.3.9. Inspection

On completion of each coat check for pinholes / misses and rectify accordingly.

### **2.3.10. Protection of Finished Membrane**

In the event of other trades working on or adjacent to the roof area, the client must make adequate provision to prevent damage to the roofing system, by other trades. Site specifics should be discussed with the approved Contractor.

### 3. ROOF DETAILS

Please note that a site investigation may be required to identify roof details and determine the required actions to ensure that they are left in a watertight condition. Guidance on detailing can be obtained by contacting Polyroof Technical Services on 0800 801890.

#### Detailing Notes:

- Roof termination details should have a minimum 150mm upstand height above the finished surface of the roof and should be terminated into a chase or have a suitable cover flashing or weathering flange. Any details where this cannot be achieved will require periodic inspection and maintenance.
- All outlets are to be inspected to ensure that they are functioning as they should. Any unsuitable outlets should be replaced with new. Outlets should be cleaned prepared and primed as required and the Elastex SoLo System is then to be sufficiently dressed into the outlets as far as practicable.
- Care should be taken to ensure all roof details are prepared and primed in accordance with current application instructions.

## 4. HEALTH & SAFETY

### 4.1. Risk Assessments / Method Statements

It is the responsibility of the contractor to ensure that adequate risk assessments (including COSHH assessments), and method statements are carried out prior to commencement of works.

### 4.2. Materials Safety Data Sheets

It is the contractor's responsibility to ensure that all relevant material safety data sheets are on site at all times. Additional copies of these sheets are available on request from Polyroof Products Ltd.

### 4.3. VOC Control / Odour

Most products contain volatile components, such as solvents; these components evaporate from the system during and post application. Some of these volatiles have a strong odour and some require hazard control measures. Some hazardous VOCs (Volatile Organic Content) are assigned a 'Workplace Exposure Limit' (WEL): the maximum concentration in the air that an individual should be exposed to within a prescribed period of time. Some of these hazardous materials have also been assigned a 'Derived No Effect Level' (DNEL): a concentration in the air above which humans (workers or otherwise) should not be exposed to under any circumstances. Historic tests carried out on typical flat roofs indicate that neither the operatives fitting the system nor people within or in the vicinity of the building, to which the system is applied, will be exposed to concentrations in excess of the WELs or DNELs; the actual concentrations will be significantly lower.

It should be borne in mind that, whilst some of these VOCs have a strong odour and can be detected at low concentrations, that they can be smelled does not mean individuals are exposed to hazardous levels.

The contractor carrying out the work is obliged to carry out a risk assessment and ensure sensible precautions are taken, such precautions would include checking the isolation of air intakes to the building and ensuring the avoidance of working within confined spaces: both could otherwise increase the exposure levels beyond those of our testing. To assure the occupants of a building who may be concerned by an unfamiliar smell, it would be prudent to warn them before work commences.

### 4.4. VOC Measuring

In sensitive areas it is possible to monitor the atmosphere for levels of VOC's, and potentially hazardous fumes by using specialist testing equipment. With most products portable site testing equipment may be used that will give an immediate indication of the concentration of specific solvents in the atmosphere.

This can show that the appropriate WEL or DNEL, is not being exceeded. In rare circumstances the services of specialist industrial hygiene companies may be required.

The contractor's risk and COSHH assessments should identify if there is a need for atmospheric monitoring.