

Elastex SoLo System

Pitched Plastisol Coated
Profiled Metal Sheets
(Waterproofing Only)

OUTLINE SPECIFICATION

REF: ELS10301 v1.0

1. INTRODUCTION

The following outline specification is based on application of the Elastex SoLo System to pitched plastisol coated profiled metal sheets. 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

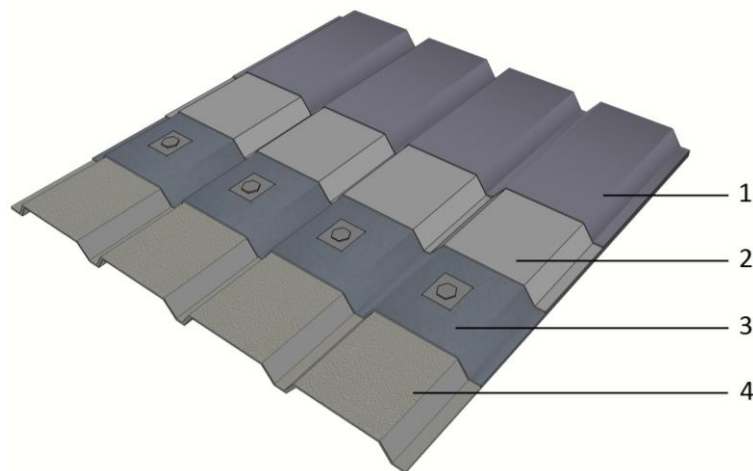
The following outline specification is for a new waterproofing system only. No improvements to thermal performance will be made and any existing condensation problems will remain. Care should always be taken to establish if the existing roof construction complies with current building regulations standards in terms of thermal performance. Options on thermal upgrades are of course available on request.

2.1.1. Existing Construction

1. Plastisol Coated Profiled Metal Sheets
2. Steel Frame Support Structure

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

2.1.2. Proposed Construction



1. Elastex SoLo Resin
2. Elastex SoLo Fibretex
3. Local reinforcements*
4. Plastisol Coated Profiled Metal Sheets

*Local reinforcements to be Elastex SoLo Resin and 300mm wide PolyMat 100 to lap joints. Elastex SoLo Fibretex to bolt heads.

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. Inspection / Removal

The existing build up is to be inspected for defects, made good where required and retained. Any areas that are structurally unsound are to be removed and replaced.

2.2.3. Surface Preparation

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

Remove any loose or flaking material and then detergent wash.

Any areas of rust are to be ground out. Any areas of significant rusting which cannot be removed should be treated with a suitable proprietary rust converter. This should be applied in accordance with the manufacturer's recommendations.

Repair, replace and reinstate any defective fixtures and fittings (bolts, seals etc).

Expanding foam is to be used to replace loose or missing foam packers at the edges of the pitched roof construction.

Thoroughly wipe the whole area with standard Elastex Solvent. Allow to dry.

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 3°C - 35°C. 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

Plastisol Coated Profiled Metal Sheets: No overall primer required to these surfaces.

Metal Surfaces: Elastex SoLo Metal Primer (Twin Pack) at a maximum coverage rate of 5m²/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 100mm dis-bondment tape. Apply Elastex SoLo Resin and 300mm wide PolyMat 100. Apply Elastex SoLo Fibretex to all bolt heads. Allow to cure.

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 Fibretex Application

Apply Elastex SoLo Fibretex at a minimum coverage rate of 1.0Litre /m² (1.0m²/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 Application

15 Year System Option:

Apply Elastex SoLo Resin at a minimum coverage rate of 0.5Litres/m² (2.0m²/Litre). Allow to cure.

20 Year System Option:

Apply Elastex SoLo Resin at a minimum coverage rate of 0.75Litres/m² (1.33m²/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:

- All redundant roof details are to be removed prior to the commencement of works. The roof area underneath is to be made good as required, ensuring that it matches the build-up of the surrounding roof area.
- 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.
- 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.