

Metal Primer

Two-component, anti-corrosive primer for exposed metal substrates prior to the application of Sika Liquid Plastics' Roofing and Balcony Waterproofing Systems

Product Description

Sika Liquid Plastics' Metal Primer is an anti-corrosive, two-component, epoxy primer. It consists of a grey base (Part A) and an activator (Part B).

Uses

Anti-corrosive primer for exposed metal substrates, used prior to the application of Decothane Base Coat and Decothane Balcons waterproofing system.

Characteristics / Advantages

- Touch dry in 3 hours (at 20 °C)
- Low temperature curing down to 5 °C
- Can be recoated after 6 hours depending on temperature
- Exceptional corrosion protection in industrial and marine environments
- Can be used as Barrier Primer over bituminous substrates (in conjunction with fully reinforced systems)
- Compatible with many well adhered existing coatings and roofing systems – adhesion testing should always be carried out
- Can be overcoated with a wide range of Liquid Plastic's membranes
- Good levelling and curing at lower temperatures.

Product Data

Form

Appearance

Pearl Grey liquid (Part A); brown liquid (Part B)

Packaging

5 litre

Storage

Storage Conditions / Shelf Life

Store in original, unopened and undamaged sealed packaging in dry conditions away from direct sunlight in a well ventilated area at temperatures >0 °C and < 25 °C. Protect from frost.

A shelf-life of 12 months is expected, from the date of production, when stored in accordance with the above recommendations at a temperature of 20 °C. Exposure to higher temperatures will reduce the shelf-life.

Reference should also be made to the storage recommendations of the material safety datasheet.



Technical Data

Chemical Base Solvent borne epoxide resin (part A) and amide curative (Part B)

Density 1.2 – 1.4 kg/L (mixed product)

Flash Point Part A = 43°C; Part B = 26°C

System Information

Substrate Quality Substrate must be in a sound condition and free from grease.

Substrate Preparation

Metals:

Steelwork is ideally prepared to Sa2½ (Swedish Standard SIS 05 : 5900 = 2nd quality BS4232 = S.S.P.C. grade SP10) OR as indicated by the blasting specification which may be of a higher standard. Where blasting is not permitted, then clean metal preparation by pin hammer etc is acceptable. Circumstances may dictate other methods of preparation may be used eg wire brush, grinding, etc. but it must be appreciated these may be less successful in returning to a bright clean metal. Completed surface should be free from all contamination and laminations.

Dull exposed galvanised surfaces may be treated direct after satisfactory adhesion test. New bright galvanised surfaces may require mordant solution.

Non-ferrous metals are prepared as follows. Remove any deposits of dust and oxidation and abrade to bright metal. Wire brushing can be used for soft metal such as lead. All necessary health and safety guidelines must be followed. The surface must be clean and free from grease which, if present, must be removed with a proprietary solution. Wash with detergent, rinse and dry.

General:

Coatings, bitumen, etc should be cleaned dry, sound and free from grease. Adhesion and compatibility tests should be carried out on all non-metal substrates.

Application Conditions and Limitations

Adhesion Testing Prior to the commencement of works, adhesion / substrate compatibility trials should be carried out onto the substrate to confirm substrate suitability and adhesion of the proposed system.

Substrate and Ambient Temperature +5 °C min. / +40 °C max.
The substrate and ambient air temperature must be a minimum of 5°C during application and initial curing.

Dew Point Beware of condensation. Surface temperature during application must be at least +5°C above dew point.

Coverage Rates

Apply one coat, at a rate of 0.15 L/m² per coat (equivalent to a maximum of 6.5 m²/L) to achieve a minimum dry film thickness of 130 microns. Demanding locations where high levels of protection of bare metal is necessary, sharp/cut edges or angles or areas that have been subject to heavy preparation may require two coats, coverage depends on substrate surface and profile. Always allow for application losses, surface irregularities, etc.
Application onto surfaces other than metal – e.g. on mineral felt in conjunction with the Decothane Solar 25 System – may need individual assessment – please consult each individual Sika Liquid Plastics' project specification.

Application Instructions

Application Method

Ensure surface is prepared as detailed above is dry and free from dust and any by-products of preparation. Prime steel within 4 hours of blasting (before re-oxidation). Previously primed areas must be free from contamination before re-priming or top coating.

Prepare primer by mixing the base until uniform. Add the activator and re-mix until homogeneous. Ensure that material at sides and base of container are thoroughly mixed.

Apply by spray, brush or roller.

When applied by brush or roller additional coats may be required to reach specified coverage rates.

Application Tools

Use brushes for small areas only. For other applications, a roller or airless spray equipment with a 0.45mm (18 thou) tip should be used. Please see Section on Health and Safety for further information.

Potlife

1 hour at 20 °C

Note: Pot life will decrease at higher temperatures and increase at lower temperatures.

Waiting Time / Overcoating

At 20 °C: Dry to touch 3 hours
 Dry through 5 hours
 Overcoat after a minimum of 6 hours

Notes on Application

Limitations

Do not apply in wet weather or to wet surfaces.

Improved curing is achieved at temperatures between 10°C and 30°C. If cooler, then curing times will be extended.

Any surfaces left uncoated for a period of more than 7 days should be abraded and re-primed with this product.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

When spraying use appropriate PPE – see MSDS for information. Operatives must be trained in the use of high pressure spray equipment.



General Information

Specification Assistance

NBS is the industry standard specification system, which allows architects, specifiers and engineers to insert clauses into specifications by manufacturer and product, making the process quicker and more efficient. We are members of NBS Plus and therefore detailed up-to-date product information is readily available to create accurate specifications.

Disclaimer

The information, and, in particular, the recommendations relating to the application and end- use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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Roofing

