



Technical Data Sheet (TDS)

ECOSSET PLATINUM SELF LEVELLING COMPOUND

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Ecoset Platinum Self Leveller is a high performance floor underlay, self smoothing, levelling mortar for carpet / tiles and timber floors. (It can be applied between 2mm to 50mm thickness) with enhanced flow properties for fast and easy application. Ecoset Platinum Self Leveller can be used in residential, commercial and light industrial applications and is suitable for both new construction and refurbishment projects.

Uses

Ecoset Platinum Self Leveller is designed as a heavy duty, high performance underlay which forms a smooth, hard surface for a variety of floor finishes including carpet, timber flooring and ceramic tiles. Ecoset Platinum Self Leveller can be used in residential, commercial and light industrial applications and is suitable for both new construction and refurbishment projects.

Advantages

- Specifically formulated for fast and easy application with enhanced flow, enhanced flow retention and excellent 'wet-edge' (>20 mins @ 20°C)
- Fast application by pump, enables large areas of floor to be completed in a working day
- Can be applied directly onto prepared concrete floors, eliminates traditional sand cement screeds
- Dimensionally stable, can be installed in large areas
- Excellent adhesion to prepared substrates
- Rapid hardening and curing allows speedy access for foot traffic and overlaying with carpet, vinyl etc.
- One pack product, applied by pump eliminates on-site batching and ensures consistency of mixed product
- Low VOC - 21.6 grams per litre (content test certificate available on request)
- Able to be applied in thicknesses of up to 50mm without addition of aggregate



Description

Ecoset Platinum Self Leveller consists of a blend of selected cements and aggregates modified with polymers and flow agents. It is used in conjunction with Ecoset Primer.

Ecoset Platinum Self Leveller is supplied as a grey powder which requires only the addition of water to produce a self smoothing, free flowing material. The product is designed for installation by a continuous mixer pump, but can also be applied by hand.

Design Criteria

Ecoset Platinum Self Leveller is designed for application thicknesses of 2mm - 50mm. Thicker application is possible however your local Evagroup sales office should be consulted for specific advice in this situation. Ecoset Platinum Self Leveller can be applied to clean, sound and well prepared concrete substrates which are free from loose material, oil, grease, paint etc. and has a minimum compressive strength of 20MPa. The relative humidity of the concrete substrate must not be greater than 80% at the time of installation. New concrete should be at least 14 days old. Consult Evagroup for advice on the suitability of other substrates or where thickness exceeds 50mm. The recommended application temperature range is 10°C to 35°C. If site conditions are outside of this range please consult Evagroup for advice.

Properties

The values given below are average figures based on 4.0 litres of water added per 20 kg bag of Ecoset Platinum Self Leveller. Actual values obtained on site may show minor variations from those quoted.

Physical properties

Compressive Strength - AS 1478.2 (2005)

1 Day 10MPa
7 Day 20MPa
28 Day 30MPa

Modulus of Rupture (Flexural strength) (AS 1012.11 - 2000):

1 Day 2MPa
7 Day 3MPa
28 Day 5MPa

Indirect Tensile strength (AS 1012.10 - 2000):

1 Day 1MPa
7 Day 2MPa
28 Day 3MPa

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Time to foot traffic @ 23°C: 4 hours
Time to overlying @ 23°C:
Up to 10mm thick - carpet overlay 24 hours
Up to 5mm thick - vinyl overlay 2 days
5mm to 10mm thick - vinyl overlay 3 days
10mm to 20mm thick - vinyl overlay 4 days

Although Ecoset Platinum Self Leveller has been designed for application by pump, the product can also be mixed and applied by hand.

Preparation

The substrate should be clean, sound and free from loose material and contamination such as plaster, oil, paint and grease. New concrete should be at least 14 days old.

Excess laitance should be removed by light scabbling or captive shot blasting followed by vacuuming to remove dust debris. Oil and grease must be removed. Large cracks and holes may be filled using a mix consisting of equal volumes of Ecoset Platinum Self Leveller and clean sharp sand made up to a trowellable mortar by the addition of a small amount of water. Prime the substrate with Ecoset Primer.

Priming

The object of priming is to seal the substrate to prevent air release from the subfloor rising and forming bubbles and pin holes on the surface of the Ecoset Platinum Self Leveller.

Extremely porous substrates may require two priming/sealing coats. Primer coats must be allowed to dry before applying the Ecoset Platinum Self Leveller.

Installation by pump

This is a specialised activity and the product must be applied by an experienced contractor who has been fully trained in the use of the product and equipment. Thoroughly prepare the floor surface. Prime the surface with Ecoset Primer, diluted with water, (4 parts water to 1 part Ecoset Primer) and allow to dry. If necessary, reprime the surface with Ecoset Primer, diluted 4:1 with water and allow to dry. Apply Ecoset Platinum Self Leveller to the required thickness onto the dry, primed surface.





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Maintenance

If damage has occurred to Ecoset Platinum Self Leveller prior to the installation of the final floor finish, repair of that area can be achieved by removing any loose material, prime the repair area with diluted Ecoset Primer, allow to dry and repair with Ecoset Platinum Self Leveller.

Coverage:

Coverage per 20Kg Bag 4.0L 1.2m² @ 10mm thick 4.3L 1.4m² @ 10mm

When substrate temperatures will be below 15°C prior to the product's initial set, Ecoset Platinum Self Leveller must be mixed at the low end of the recommended water addition rate, i.e. 4.0 litres of water per 20kg bag.

Ecoset Primer: 6 - 8m²/litre (after dilution with clean water as specified)

The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.



Storage

Ecoset Platinum Self Leveller has a shelf life of 2 years from date of manufacture if kept in the original, unopened bags. Refer to the manufacture date indicated on the packaging. Do not use if there are lumps in the product, or a loss of workability (requiring more water to

Limitations

Although Ecoset Platinum Self Leveller has a 28 day compressive strength of 30 MPa, it is designed as an internal underlay material only and NOT a wearing course for traffic. Ecoset Platinum Self Leveller must not be used in areas subject to permanent wetting, rising damp or where back water pressure is likely. To prevent rapid drying, protect from direct sunlight and/or drying winds during application and the final curing period. If the surface onto which Ecoset Platinum Self Leveller is applied moves or cracks, reflective cracking may occur. The recommended application temperature range is 10°C to 35°C. If site conditions are outside of this range please consult Evagroup for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Evagroup does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

*Manufactured under license for Evagroup Australia.

A Material Safety Data Sheet (MSDS) is available from the Evagroup website. Read the MSDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Evagroup Australia
Ph: 1300 382 477

www.evagroup.com.au
ABN 47 124 061 169