Ecoset Gold 20kg Leveller

TDS (Technical Data Sheet)



DESCRIPTION

ECOSET GOLD is a rapid drying, Respirable Silica Compliant self-levelling compound with excellent flow properties formulated for levelling difference from 1-30mm in thickness for new and existing internal concrete substrates.
It develops smooth surfaces with high levels of mechanical resistance, ensuring the subsequent installation of floor coverings: carpets, resilient coverings, linoleum, timber flooring, and tiled floor finishes.

FEATURES & BENEFITS

- Excellent flow properties
- Can be applied in thickness from 1mm – 30mm
- Rapid drying
- High compressive and flexural strength
- Excellent resistance to indentation and abrasion
- Floor coverings can be installed 16 hours after application
- Suitable for pump application
- RCS Compliant* (Respirable Crystalline Silica)

**Silica (Respirable Crystalline Fraction) levels are below the concentration limit for carcinogens (0.1%) as per schedule 6 of the Model Work Health Safety Regulations 2023.*

RECOMMENDED USE

- Levelling new and existing concrete substrates.
- Preparation of surfaces for subsequent floor finishes including vinyls, carpets, linoleum, floating floors, timber flooring and ceramic tiles.
- Ready to accept most floor coverings after approximately 16 hours.
- Levelling over ECOSET-engineered cementitious screeds—TRU-LEVEL ECONOSCREED, TRU-LEVEL BULK FILL UT LEVELLER.
- Levelling over underfloor heating systems.

CLASSIFICATION ACCORDING TO EN 13813

The material properties of Ecoset Gold are classified as CT-C30-F6.

SURFACE PREPARATION

Substrates must be dry, sound, clean, and in accordance to the relevant Flooring Coverings Australian/ NZ standards and Local Building codes.
Substrates must be free of wax, grease, oil, polishes, old adhesive, curing compounds, high levels of moisture, and any other surface contaminants that may affect adhesion.
If mechanical preparation is required, prepare the floor using recommended methods such as shot blasting and diamond grinding to provide a roughened, clean, sound, and open porous surface.
Thoroughly vacuum loose material and dust.
The minimum subfloor temperature before commencing installation should be 10°C.
Do not use solvents or acid etching to clean the subfloor.
Relative humidity and pH readings must be carried out on the concrete substrate in accordance with the relevant Floorcovering Australian Standards.
For substrates that display high moisture levels, ECOSET recommends that ECOSET MOISTURE SEAL be applied before Ecoset Gold installation.
If temperatures are less than 5°C or higher than 35°C, please contact the ECOSET Technical Department for further advice.

APPLICATION

Apply in one coat from 1mm to 30mm.
Apply the mixed compound to the primed substrate using a gauge rake, stand-up spreader at the required height adjustment, or trowel on a slight incline to obtain the necessary thickness.
Installations can also be pumped using an appropriate mixing pump.
The mixed quantity must be used within 15 minutes at a temperature of 23°C.
Due to its self-levelling properties, Ecoset Gold will quickly develop a smooth finish and even surface.

PRIMING

Prime substrates with ECOSET UNIVERSAL PRIMER.

POROUS SUBSTRATES

Mix one (1) part Universal Primer with two (2) parts of clean water.
Apply an even film using a roller or brush, ensuring the entire area is covered and allowed to cure.
Highly absorbent or porous surfaces may require a second coat of Universal Primer to avoid pinholes.

NON-POROUS SUBSTRATES

Substrates such as ceramic tiles to have no coatings or sealing compounds on the surface before applying primer.
Coatings, curing, and sealing compounds must be mechanically removed from concrete substrates.
Apply an even layer of Universal Primer neat (undiluted to non-porous substrates).
Allow the primer to dry (approx. 2 hours @ 23°C).
Once Primer is a tack-free transparent film, products can be applied over the primer.

Examples of Non-Porous Substrates:
Burnished Concrete, Ceramic Tiles, Liquid Waterproofing membranes.
For extremely non-porous substrates, it is recommended that a light grind or sand be conducted to enhance adhesion.

To determine whether a substrate is POROUS or NON-POROUS, pour water from a bottle or a dropper forming a puddle onto the substrate surface, the size of a 10-cent coin. If the water absorbs into the substrate in less than ONE (1) minute, the substrate is POROUS. If the puddle remains, the substrate is NON-POROUS.
ATSM F3191-16 Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates.

MIXING RATIO

Mix one 20kg bag with 4.2-4.4 litres of clean water.
Mix Ecoset Gold levelling compound with a drill and suitable mixing paddle.
Slowly add the powder to the water while mixing at a low speed. It is essential to ensure the powder and water are mixed evenly for approximately three (3) minutes and that the water has dispersed to obtain a lump-free mix. Do not overwater, as this will promote bleeding and separation with a reduction in bond and tensile strength.
DO NOT MIX BY HAND

SETTING TIMES

When applied will harden after 2–3 hours at 23°C and can be walked on after this time.
The levelling coat will be ready to receive floor coverings fixed with adhesives after 16 hours at 23°C (time may vary depending on temperature and humidity).

CLEAN UP

Clean tools immediately after use with water.

COVERAGE

12-13m² per 20 kg bag at 1mm thick

SHELF LIFE / STORAGE

12 months stored in original unopened packaging.
Best stored in a dry area at room temperature.
Keep off cold floors and out of direct sunlight.

NOTES & PRECAUTIONS

- New concrete must be a minimum of 14 days old.
- Do not allow Ecoset Gold to come into contact with water during or after the curing process.
- Do not apply to substrates subject to rising dampness.
- Drying times are extended when applied in cold ambient temperatures.
- Not suitable for particle board or strip timber flooring.
- Do not apply over expansion joints, as reflective cracking may occur.
- If applying over ceramic tiles and other non-absorbent substrates it is recommended to apply a minimum of 3-4mm coating to ensure a water based adhesive can wet out correctly.

THIS PRODUCT IS FOR INTERNAL USE ONLY

HEALTH AND SAFETY

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

TECHNICAL DATA

PRODUCT INFORMATION

Colour	Grey
Bulk Density (kg/dm³)	~1.46
Wet Density (kg/dm³)	~2.0
Shelf life	12 months
Packaging	20kg
Coverage – 20kg Bag	Approximately 4m² at 3mm

APPLICATION DATA 23°C AT 50% RH

Mixing Ratio	4.2-4.4 litres of water
Open Time	30 minutes
Setting Time	2-3 hours
Temperature Range	From +5°C to +35°C
Maximum Thickness	30mm
Foot traffic	3-4 hours
Waiting time before subsequent bonding	16 hours
pH of Mix	Approximate pH 12

PERFORMANCE DATA

FLEXURAL STRENGTH N/mm2 EN 13892-2:

- 1 day: > 3
- 3 days: > 4
- 7 days: > 5
- 28 days: > 6

COMPRESSIVE STRENGTH N/mm2 EN 13892-2:

- 1 day: > 10
- 3 days: > 18
- 7 days: > 25
- 28 days: > 30

ABRASION RESISTANCE G-EN 12808-2:

- 28 days: < 150

SURFACE HARDNESS N/mm2 EN 13892-6:

- 28 days: > 50

WARRANTY STATEMENT

ECOSET guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.
We certify that this product is suitable for use when fully cured and will perform as described in our technical data sheet or other published materials.
ECOSET will replace the product free of charge when purchased from any legally verifiable source and where a product is proven to have been stored, handled, and install according to instructions published on our packaging and within the stated shelf life. The Installation of all materials must be carried out in accordance with relevant Australian Standards.
Warranty doesn't apply if damage, loss, failure to follow instructions, or other circumstances are out of our control.
Sufficient time and access to investigate any complaint must be accorded to ECOSET Polymers.
The consumer is responsible for any expenses incurred in making a claim.
A claim form can be requested by contacting below under Company Information:

AUSTRALIAN CONSUMER LAW

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality, and the failure does not amount to a major failure. The benefits under our warranty are in addition to other rights and remedies available to the consumer under the law in relation to the goods and services to which the warranty relates.

DISCLAIMER

All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy thereof is not guaranteed. Users assume all risk and liability resulting from the use of the product and must confirm the suitability thereof by their own tests. Conditions of Sale contain a limited warranty against manufacturing defects.

COMPANY INFORMATION

ECOSET is a trading name under GOLD TITAN Pty Ltd ACN 124 061 169

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