

OVERVIEW

Terraseal is an economical, two-component, permanent waterproof, flexible moisture barrier coating suitable for use in areas with extreme climatic conditions. Terraseal is specially developed for use on concrete and masonry facades prior to EIFS systems and curtain walling installation. It complies with ASTM E-84 (Surface burning & smoke development test) Class-A rating. It is applied by brush for smooth surfaces or by spray for uneven surfaces & block work.

PROPERTIES / ADVANTAGES

Terraseal is a polymer modified cementitious waterproof coating, supplied in two components, as a liquid resin and powder to be mixed on site before application.

Terraseal Resin

Based on acrylic resins resistant to alkalinity.

Terraseal Powder

Based on special cements, precisely graded fillers, wetting agents and adhesion promoters.

- Easy to mix and apply
- Application by brush or spray
- Pot life of greater than 2 hours at elevated temperatures
- Seamless permanent coating
- Tough durable coating
- Good adhesion to dimensionally stable concrete and mortar substrates
- Vapour permeable – allows substrate to breathe
- No erosion or cracking
- Ready to use after mixing- No water addition required

AREA OF USE

Terraseal is suitable for waterproofing concrete and masonry substrates prior to application of Terraco Exterior Insulation Finishing System (EIFS) or any non-load bearing assemblies like curtain wall systems.

Terraseal is also suitable for waterproofing of cement fiber boards.

PREPARATION OF SURFACE

Ensure substrates are clean and sound. Remove all existing coatings, cement laitance, unsound, honeycombing and spalling concrete by suitable mechanical means. All dust, dirt and loose materials must be thoroughly removed by brush, broom or vacuum from the areas to be coated. Grind off all ridges & sharp projections. Scrap off all flaking material & remove oils, grease and other adhesion inhibiting substances. Rinse the substrate and while its damp, apply Terraseal.

MIXING

It is recommended to mix full kits only.

Place the resin in a clean mixing vessel then slowly add the powder while mixing for at least 3 minutes with a slow speed mixer (200-600 rpm) until the mix is completely homogeneous and lump free. Ensure the blade remains below the surface of the mixture to minimize the entrapment of air and that no powder remains unmixed on the sides and in the corners of the mixing vessel. Leave to stand for at least 5 minutes to release any entrapped air. Mix again for 30 seconds before application. During application ensure occasional stirring to keep the aggregates in suspension.

Notes:

Do not add water to adjust or re-temper the mix. When bulk mixing; only mix required kits of Terraseal that can be used within its pot life.

APPLICATION & CLEANING OF TOOLS

Terraseal can be applied by brush or spray. For spray application please consult your local Terraco Technical Department. Apply Terraseal onto the water saturated substrate in a minimum of 2 coats, each at right angles to each other; to achieve a total thickness of 1.0-1.5 mm. Total consumption is approximately 1.9-2.9 kg/m². During brush application ensure that the Terraseal slurry mix is pressed firmly onto the substrate to ensure maximum adhesion and that all pinholes, cracks, honeycombing etc. are thoroughly filled and sealed.

Terraseal must be applied within 1 hour of mixing. Do not apply if rain is expected within 24 hours of application.

Clean tools and equipment with water immediately after use. Hardened material can only be removed mechanically.

CURING & DRYING

Curing and drying times depend on ambient temperatures, atmospheric humidity and thickness of coating.

Protect surfaces from wind and direct heat during application and curing. Do not apply in humid conditions > 80%.

Terraseal will be surface dry in less than 3 hours at 30°C.

Allow first coat of Terraseal to dry for minimum 6 hours before over coating.

LIMITATIONS

Terraseal is not designed for continuous immersion in water.

Do not apply during rising temperatures to avoid the risk of out gassing resulting in pin-holing.

Do not apply on bituminous coating.

Do not apply if rain is expected over the next 24 hours as the applied Terraseal coating is not resistant to water until fully dry.

HEALTH & SAFETY

Avoid prolonged contact with eyes and skin. Rinse with clean water. Seek medical treatment immediately. For detailed information refer to relevant material safety data sheet.

PACKAGING & STORAGE

When stored in their original sealed packaging in a clean, dry area and protected from high humidity, moisture, direct sunlight and extreme heat and cold, shelf life is at least 12 months. Use oldest material first.

TERRACO offers a comprehensive range of products and services for most concrete and finishing needs. Please contact the TERRACO Technical Service Department or your local TERRACO agent for further information, samples, demonstrations and instructor services. The information given in this leaflet is based upon laboratory research, as well as extensive field work and application. All products are sold subject to standard conditions of sale which are available on request. This information is based on TERRACO's present state of knowledge and is intended to provide general information on TERRACO's products and their methods of use. The prospective user is recommended to determine the suitability of TERRACO's suggestions and products before adopting them on a commercial scale.

TECHNICAL DATA

Colour	Grey and natural white
Specific Gravity	1.85 ± 0.05
pH	11-13
Pot Life at 30° C	2 hours
Overcoat Time at 30° C	6 hours
Adhesion Strength (ASTM D 4541)	≥0.5 N/mm ²
Reduction in Water Absorption (ASTM D870)	>90% reduction in water absorption
Surface Burning Characteristics (ASTM E-84)	Class-A
VOC (USEPA 24)	<5 (g/l)
Yield	10.5 litres /20 kg pack
Resin : Powder Ratio	1.0 resin: 3.0 powder by weight
Material Consumption	Approximately 1.9-2.9 kg/m ² (mixed)
Application Thickness	1.0-1.5mm
Coats	2 (minimum/coat-0.50mm and maximum/coat-1.0mm)
Max./Min. Application Temperature	5° C to 40° C
Packaging	20kg kit (resin 5kg jerricans and powder 15kg paper bag)
Storage	12 months in original sealed packaging.

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