

OVERVIEW

Terracrete is a high quality, two-component, cement based, polymerized, flexible and permanently waterproof slurry coating, suitable for use in areas with extreme climatic conditions. Terracrete has good anti-carbonation properties. Terracrete is especially recommended as an effective waterproofer for wet rooms, reservoirs and below-DPC EIFS tanking.

PRODUCT GRADES/CODES

White	68535
Grey	68635

PROPERTIES

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

Terracrete Resin

Based on acrylic resins highly resistant to alkalinity.

Terracrete Powder

Based on special hydraulic cements, precisely graded fillers and performance enhancing additives.

- Easy to mix and apply
- Application by brush or spray
- Pot life of greater than 2 hours at elevated temperatures
- Excellent adhesion to dimensionally stable concrete/render
- Seamless permanent coating
- Vapour permeable - allows substrate to breathe
- Fixed ratio system - no added water
- High UV and weather resistance
- High flexibility
- Non toxic
- Good anti-carbonation properties
- Cement mortars and tile adhesives can bond to it directly

AREAS OF USE

Terracrete is suitable for waterproofing concrete and masonry substrates in the following areas:

- Waterproof lining of non-potable water tanks and reservoirs
- Swimming pools
- Water transport and irrigation channels
- Retaining walls and foundations
- Wet room walls and floors
- Planter boxes
- Filling of blow holes / pores in concrete
- Repair of hairline cracks and low build concrete repairs
- Decorative ponds, concrete gutters, irrigation canals and patios

SURFACE PREPARATION

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 and sharp projections. Scrape off all flaking material and remove oils, grease and other adhesion inhibiting substances. Mortar joints must be sound and finished flush with the blockwork.

In situations requiring reinforcement, and at all wall and floor corner junctions, pipe entries and drains, it is recommended to apply the respective Terratape reinforcing membrane or Terraco Joint Reinforcing Strip.

Cracks and surface defects must be made good using suitable Terraco repair products. Create a fillet in the corners where required, prior to application of Terracrete.

Dry and porous substrates should be primed with Terrabond A (diluted 1:3 with clean water) or undiluted Terraco Waterproofing Primer. Other surfaces should be saturated with water prior to application but no standing water should be present.

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 Terracrete that can be used within its pot life.

APPLICATION & CLEANING OF TOOLS

Terracrete can be applied by brush, broom or spray equipment. When applying by spray please consult with the local Terraco Technical Department. Apply onto the freshly prepared substrate in 2-3 coats, applying each coat at right angles to each other, to a total thickness of 1.5-2.0 mm. Total consumption is 2.8-3.8 kg/m² (mixed Terracrete). It is recommended that the total application thickness be 1.5 mm under tiles and 2.0 mm for exposed areas.

Clean tools and equipment with water immediately after use.

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%.

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

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

Terracrete should be left to cure for at least 7 days before water flood testing.

Tiling work should commence after minimum 3 days of Terracrete application.

LIMITATIONS

Do not apply during rising temperatures to avoid the risk of out gassing, resulting in pin-holing. Do not apply on bituminous coating. For exterior areas, do not apply if rain is likely over the next 24 hours.

HEALTH & SAFETY

Avoid prolonged contact with skin and eyes. Rinse with clean water. Seek medical treatment immediately. For detailed information refer to the latest relevant product Safety Data Sheet.

PACKAGING & STORAGE

Terracrete Resin is supplied in 5 kg jerricans.

Terracrete Powder is supplied in 15 kg paper bags.

Terracrete Kit is supplied in 20.25 kg pails (5 kg resin in a jerrican, 15 kg powder in a paper bag and 0.25kg Terrabond A in a bottle).

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.

TECHNICAL DATA

Colour	Grey and natural white.
Specific Gravity	1.80 ± 0.05
pH	11-13
Pot Life at 30°C	2 hours
Overcoat Time at 30°C	6 hours
Adhesion Strength (ASTM D 4541:2002)	>0.75 N/mm ²
Elongation	Up to 5%
Crack Bridging (EN14891:2007)	>0.75 mm
Water Penetration – 5 Bar 72 hours (DIN 1048-5, EN 12390 – 8:2000)	Nil
Resistance to Water Pressure 1.5 Bar (EN 14891:2007)	Nil
Vapour Permeability SD Value	0.16
VOC	<5 (g/l)
Yield	10.8 litre/pack
Resin : Powder Ratio	1 part resin : 3 parts powder (by weight)
Material Consumption	Approximately 2.8-3.8 kg/m ² .
Application Thickness	1.5-2.0mm
Coats	2 to 3 (minimum/coat-0.75 and maximum/coat-1.0mm)
Min./Max. Application Temperature	5°C to 40°C
Packaging	20.25kg kit (5 kg resin in a jerricans, 15 kg powder in a paper bag and 0.25kg Terrabond A in a bottle)
Storage	12 months in original sealed packaging.

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.

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