

# Technical Data Sheet

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## TERRATUFF Epoxy Floor Coating

**GENERIC TYPE:** A two pack coloured, epoxy resin based coating system. Terratuff gives a smooth glossy finish. An general purpose floor coating epoxy.

### TYPICAL PROPERTIES/ FEATURES:

- TERRATUFF is a medium build epoxy coating system suitable for application to a wide variety of substrates including steel and concrete.
- Solvent based resin gives excellent concrete penetration and adhesion.
- Excellent resistance to a wide variety of chemicals and petroleum products – refer to chemical resistance chart.
- Very good abrasion and scuff resistance.
- Good flow properties to help even out imperfections.
- Available in slip resistant finish if required.
- Good attractive surface finish. Medium gloss.
- Tolerant of application to a slightly damp surface. Tolerant of poor drying conditions.

### Number of Coats:

Two minimum; three with porous concrete .

**Working Time:** 8 hours at 20°C

**Dry Time:** Touch dry 3 hours  
Hard dry 10 hours ) at 20°C 75% RH

### Recoat Time:

Minimum 16 hours at 20°C

Maximum 48 hours at 20°C

### Full Cure:

Effectively cured after 48 hrs. Full: 7 days at 20°C

**Minimum Application Temperature:** 5°C

**Heat Resistance:** 80°C

**Colours:** TERRATUFF is available in

standard AS2700 and BS5252F colours (refer to colour chart). We also make colours based on other commercial colour charts. Special colours are available. Minimum order quantities may apply.

**Fire test** Critical radiant flux 12.3 KW/M<sup>2</sup>; TEST METHOD ISO-9239-1(2 0100 6-15 .



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**SUGGESTED USES:** Terratuff has exceptional resistance to a wide variety of chemicals and foods

- Bulk retail
- Sewerage Treatment plants
- Food processing plants
- Vehicle workshops
- Plating plants / pulp mills / Refinery floors
- Asphalt and concrete floor areas / plants
- Construction and mining industry
- Factory floors, Warehouse floors, Clean rooms.
- Ablution areas
- Residential garages and workshops
- Chemical and oil industry
- Abattoirs
- Storage tank linings
- Silos
- Slip resistant floor finishes

**NOT RECOMMENDED:**

- Application below 5°C.
- Application to incorrectly prepared surfaces.
- Application to green concrete (allow 28 days cure).
- Application to unsound substrates.

**CHEMICAL RESISTANCE::** Resistance to chemical spillage (cured 7 days at 25°C)

- Ammonia solution (20%)
- Sulphuric Acid (30%)
- Hot water
- Aviation fuels
- Petrol
- Tannic acid
- Food emulsions
- Lubricating oil
- Caustic soda (30%)
- Kerosene
- Lactic acid (5%)
- Sodium chloride (50%)
- Fuel oil
- Hydrochloric acid (20%)
- Acetic acid (5%)
- Toluene
- Nitric acid
- Iodine and chlorine based sanitisers
- Phosphoric acid

**Note:**

The table represents a guide only. Variables which may under extreme conditions, influence the chemical or corrosion resistance are:

1. Temperature of chemical concentration.
2. Intermittent or continuous contact.
3. Application in adverse conditions.
4. Risks of evaporation from spillage causing concentration to rise adversely.

**SAFETY PRECAUTIONS:**

- **(During application)**\_Contents are flammable.
- Avoid skin contact.
- Provide adequate ventilation.
- Store away from children.
- Avoid breathing vapour or fumes.
- Wear safety equipment including clothing and breathing apparatus.
- Refer materials safety data sheet.

**SURFACE PREPARATION:** Prepare concrete by shot blasting or grinding. Etching with acids will be ok in some circumstances. Remove all concrete curing agents, contaminants and any other material likely to affect the adhesion of the Terratuff. Concrete must be clean and dry.  
Do not apply over existing coating without checking compatibility (compatible with most 2 component coating systems, when abraded.) Fill holes with Nuplex K102, K125 or Epoxy fairing cream.

**PRIMING:** Terratuff is self priming.

**MIXING METHODS:**

Add part B into part A. Mix evenly and carefully ensuring all material is mixed and no material sits on the pail sides and edges. If in doubt, add complete contents of the mixed materials to a suitable container and mix again. Power mix at low speed (approximately 300rpm) for 2 minutes ensuring both compounds are homogeneously blended and the colour is uniform. DO NOT THIN. Allow mixed material to stand for 2-3 minutes prior to use.

**MIX RATIOS:** 3 parts by volume Resin Part A to 1 part by volume Hardener Part B

**APPLICATION METHOD:** Terratuff should not be thinned. Apply two coats by brush or roller. Both conventional and airless application may be utilised although care must be taken in cleaning equipment and avoid "setting" of Terratuff in equipment if left to stand.

A third coat may be necessary on porous surfaces.

**SPREADING RATES:**

9m<sup>2</sup>/litre/coat or 36m<sup>2</sup>/4 litre pack/coat, or 144m<sup>2</sup>/16 litre pack/coat approximately.

Two coat systems are adequate on good, dense concrete. Three coats are recommended if the concrete is less dense (ie use the first coat as a primer maybe applied at a higher rate 7m<sup>2</sup> /Lt. ), or if a smoother finish is required or if a quality non-slip system (see above) is used.

**SLIP RESISTANT FINISHES:** Slip resistant finishes can be achieved using:

	<u>Approx Application Weight</u>
Revtred (glass beads)	50m <sup>2</sup> / 550gm pack (Sprinkle)
Microcells (ceramic sphere)	100gms/ 4 litres (add to wet mix)
J61 Sand (fine sand)	2 kgs/m <sup>2</sup> . (Post sprinkle)

Typical co-efficient of friction "wet" NZS/AS3661.1:1993:

Revtred	0.54
Microcells	0.56
J61 Sand	0.63

**Note:** - Additive is applied to the second to last coat.

- If a **non-slip system** is to be used, a better finish is obtained if a three coat finish is used. The non-slip additive is added in the second coat.

**OVERGLAZE (CLEAR) (OPTIONAL):** This is not common. Overglaze can be advantageous where chemical staining may occur. Overglaze with one coat of Nuplex Revathane non-yellowing polyurethane (refer technical data).

**FILM BUILD:**

(Theoretical) Minimum 125 microns.

**CLEAN UP:** Nuplex Terratuff Cleaners

**PACKAGING:**

- 4 Litre kit (3 litres Part A, 1 litre Part B) or 16 Litre kit (12 lts part A, 4lts part B)
- Colours : Stocked in AS2700 N35 light grey; all other colours made to order ex BS5252 or AS2700

Example

A 500sqm floor which needs three coats as the prepared concrete is porous.

182 lts which is 12 x16 lt kits

Specify colour "as required".