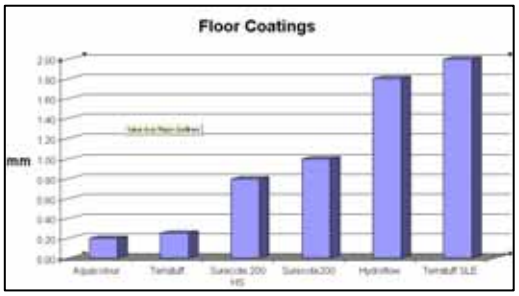
Surecote 200 Hi-Build Epoxy Floor Coating

GENERIC TYPE:

A two-pack coloured epoxy floor coating system. Surecote 200 floors give a smooth, semi gloss finish with excellent wear resistance.

TYPICAL PROPERTIES/ FEATURES:

- Surecote 200 is a hi-build epoxy coating system suitable for application to a wide variety of floor substrates; usually concrete but including timber &, steel.



Good filling properties to smooth out pitted floors to give an even, semi-gloss appearance.
The chart to the left shows a 1mm film build in a one coat application. Thin film epoxy coatings, eg Terratuff, achieve a much lower total film thickness but still need a three coat application.
Surecote 200 combines economy with film thickness to achieve that desired monolithic appearance.

- 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.
- **Solvent free, no odour**
- Tolerant of application to a slightly damp surface.
- Semi-gloss finish reduces glare and reflection.

Number of Coats:	One
Working Time:	60 minutes at 20°C
Odour:	Very low odour, No solvents (unmodified)
Cure Time:	Overnight at 20°C; full hardness 48hrs
Minimum Application Temperature:	10°C
Heat Resistance:	-20 to 65°C
Colours:	Surecote 200 is available in many colours in the standard BS5252F colours (refer to Nuplex colour chart). Special colours are available. Minimum order quantities may apply.

SUGGESTED USES:

Surecote 200 has exceptional resistance to a wide variety of chemical spillage and fumes and is ideal for use in heavy industrial or marine environments.

Applications include:

- Retail shops and commercial applications
- Pulp and Paper Mills
- Refineries
- Dairies

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Surecote 200 (cont'd)

- Sewerage Treatment plants
- Food processing plants; food storage
- Vehicle workshops
- Construction and mining industry
- Warehouses
- Ablution areas
- Residential garages and workshops
- Chemical and oil industry
- Silos
- Pharmaceutical & cosmetic clean rooms; smooth hygienic finish.
- Slip resistant floor finishes

NOT RECOMMENDED:

- Application below 10°C.
- Application to incorrectly prepared surfaces.
- Application to green (uncured) concrete. Will tolerate damp concrete
- 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

Surecote 200 (cont'd)

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)

- Avoid skin contact.
- Store away from children.

Refer materials safety data sheet.

SURFACE PREPARATION:

Prepare concrete by acid etching, shot blasting or grinding. Remove all concrete curing agents, contaminants and any other material likely to affect the adhesion of the Surecote 200.
Do not apply over existing coating without checking compatibility (compatible with most 2 component coating systems). However overcoating is not likely to be successful without strong , coarse sanding or abrasion. Prefill any large divots greater then 0.5mm and grind any highpoints or contaminants. VACCUM.

PRIMING:

Use Supascreed primer at 5-6m²/Lt. This primer is solvent free. Allow to fully dry (turns clear from white) before application of the Surecote 200 system.
Alternatively, dilute Surecote 200 with Solvent HA (3 parts to 1 part and use that as a primer).

APPLICATION METHOD:

Roller, brush, trowel or notched rubber squeegee. Pour onto the prepared and primed surface and spread evenly using the appropriate method. Normally apply in one coat only over the primed surface. Take care to ensure the 1mm application by calculating material quantities and methods of application. Get it right first time! 1lt per 1m².
Isolate access to people and control wind blown dust and dirt.

MIX RATIOS:

2.5 parts by volume Resin Part A (10lt)
1 part by volume Hardener Part B (4lt).
NB: Note to contractor: Three hardener systems are available: Slow (hot conditions), Normal (mid range temperatures) and fast (cold curing conditions). Choose the hardener that suits the conditions at the time of application. The temperature of the materials, the floor and the environment will all effect the curing time.

Surecote 200 (cont'd)

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

Approx Application Weight
Microcells (ceramic sphere) 100gms/4 litres
Typical co-efficient of friction "wet" NZS/AS3661.1:1993:
Microcells 0.56

Note: Additive is applied , mixed in with product

MIXING METHODS: Add complete contents of Surecote 200 Resin (Part A) and Surecote 200 Hardener (Part B) to a suitable container. Power mix at low speed (approximately 300rpm) for 2 minutes ensuring both compounds are homogeneously blended and the colour is uniform.
NB: ensure no unmixed materials remain on the sides, rims or lips of the containers.
NB very carefully: If the Surecote 200 is required to be applied at less than 1mm, then Solvent HA may be added (5% by volume). This will allow the coating to be applied in the range 0.5 – 1.0mm. This addition will also increase the working time (more easier to apply). However the monolithic visual effect will be reduced, shrink-back will occur and the system will clearly no longer be solvent or odour free. Solvent tinning is a not a usual process.

OVERGLAZE (CLEAR) (OPTIONAL): Overglaze can be advantageous where chemical staining may occur. Overglaze with one coat of Nuplex Revathane non-yellowing polyurethane (refer technical data).
Overglazes are not commonly required.

SPREADING RATES: (Theoretical) One mixed litre per m² will give a 1mm film build. This rate gives the best combination of pit filling, smoothness and uniform appearance. The 14lt kit will cover 14m² @ 1mm thick.
May be applied more heavily or more thinly if diluted.

FILM BUILD: (Theoretical) Normally 1mm, may be applied more heavily (1-3mm); (or thinner: 0.5-1.0mm if solvent added).

CLEAN UP: Nuplex Solvent HA (flammable)

PACKAGING: 14 Litre kit (10 litres Part A, 4 litre Part B)

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