

DECK COAT 30



Solvent-free high build, epoxy floor coating

DESCRIPTION

DECKCOAT 30 is a two-part epoxy resin system which produces a high build, hard wearing, chemically resistant floor coating. Where required DECK COAT 30 may be included to produce a slip resistant surface.

TYPICAL USES

DECKCOAT 30 may be used in industrial and commercial situations to provide an abrasion resistant finish in areas subjected to traffic, chemical attack and surface water, such as:

- Car parks
- Loading bays
- Walkways
- Chemical production facilities
- Dairies
- Beverage production units
- Wet working area

ADVANTAGES

- Abrasion resistant
- High build and therefore requiring low maintenance
- Resistant to a wide range of chemicals (see Chemical Resistance Chart)
- Solvent free to minimise disruption
- Slip resistance to suit site conditions
- Available in a range of colours to demarcate areas and provide a light reflective floor

TECHNICAL DATA

Typical results	@ 20°C
Compressive strength (BS 6319)	70 N/mm ² @ 7 days
Flexural strength (BS 6319)	40 N/mm ² @ 7 days
Tensile strength	20.0 N/mm ²
Pull Off strength	3.07 N/mm ²
Abrasion resistance	36.1 mg
Water Absorption	0.01%

Coefficient of thermal expansion	1.02x10 ⁻⁶ /°C
Solids content	100%
VOC Content (USEPA 24)	27 g/L
Pot life	50 mins
Intercoat time (min)	12 hrs
Intercoat time (max)	36 hrs
Exposure to Foot traffic	1 day
Exposure to Vehicular traffic	3 days
Exposure to Chemicals	7 days
Typical system thickness (dft, excluding NS Grains)	400µm

CHEMICAL RESISTANCE CHART

10% Lactic Acid	Excellent
10% Citric Acid	Excellent
10% Nitric Acid	Excellent
10% Acetic Acid	Excellent
50% Hydrochloric Acid	Excellent
50% Sulphuric Acid	Excellent
5% Bleach	Excellent
Saturated Sugar Solution	Excellent
Saturated Urea Solution	Excellent
Petrol	Excellent
Oil	Excellent
Kerosene	Excellent
50% Sodium Hydroxide	Excellent
10% Ammonia	Excellent
50% Phosphoric Acid	Good
25% Nitric Acid	Good
Butanol	Good
Skydrol	Good
Industrial Methylated Spirit	Good

Note:

· If chemical spillage occurs, immediately remove the spillage and wash down with water to prevent any attack or discolouration

APPLICATION

Preparation

It is essential that adequate preparation is carried out prior to the application of DECK COAT 30.

Grit blasting is recommended to ensure the removal of all laitance, grease and oil. The resultant surface should be dry and dust free. Cracked and damaged areas must be made good with appropriate repair materials.

PRIMING

DECKCOAT 30 may be applied to properly prepared concrete without the use of a primer providing:

- The moisture level of the concrete is less than 75% when tested in accordance with BS8203 Annex 4.
- The wet film thickness for the first coat does not exceed 250µm. It is essential that a wet film thickness gauge is used to monitor average thickness during application.

Otherwise use DECK COAT Primer 30 or DECKCOAT PRIME MR as follows:

The contents of the curing agent should be emptied into the base component and stirred with a spatula until the product appears uniform.

The mixed primer should then be applied to the prepared substrate by a stiff brush at 10-15 m²/litre. If the primer appears to be absorbed into the surface easily, it will be necessary to apply a second coat once the initial coat is tack-free.

It is essential that the primer is tack-free prior to the application of the topping. The application of DECK COAT 30 should commence between 8-24 hours after priming. If this period is exceeded, then the surface of the primer should be lightly abraded and a fresh priming coat applied.

MIXING

DECKCOAT 30 is supplied in a two- component kit consisting of a curing agent and a pigmented base component.

Both of the components should be briefly stirred to



ensure that any settlement products are fully suspended. Empty the entire contents of the curing agent into the base component.

To ensure that all material is extracted, the insides of the fins should be scraped. The curing agent and the base component should be mixed with a slow speed, heavy duty electric drill and a spiral mixing paddle for at least five minutes and until the material appears uniform in colour and consistency.

APPLICATION

The first coat of DECKCOAT 30 is applied by a medium pile roller at a desired wet film thickness.

The quantity of material used per coat and the number of coats may vary dependant on the porosity of the substrate and the surface profile.

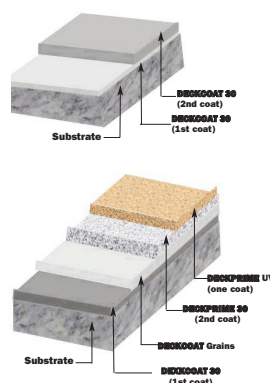
If a slip resistant profile is required, the first coat is completely blinded with DECKCOAT GRAINS.

This should be carried out while the coating is still wet.

When the first coat has reached its initial cure (12 hours @ 20°C), the excess aggregate should be removed by vacuum from the surface. The top coat is then applied again by a medium pile roller. Where a smooth finish is required, the top coat is applied as per the first coat.

For slip resistant floors the topcoat of DECKCOAT 30 should provide a continuous film of material and also completely seal the surface of the DECKCOAT 30.

The consumption rate of materials for this type of application will be heavier for the top coat due to the increase in the surface area to be coated. Where UV resistance is required, overcoat with DECKCOAT 30



EQUIPMENT CLEANING

All equipment may be cleaned of uncured material using DECKCOAT Cleaning Fluid.

PACKAGING AND YIELD

DECKCOAT 30 in 4.5 litre and 15 litre units @ 200µm wft: 1st coat - 5.0 m²/litre 2nd coat - 5.0 m²/litre (smooth finish) 2nd coat - 4.0 m²/litre (slip resistant)

DECKCOAT GRAINS in 25kg bags @ 2kg net/m² Sizes Medium 0.4 - 0.7mm

DECK Primer 30 @ 10-15 m²/litre 1 litre pack gives 10-15m² 5 litre packs gives 50-75m²

DECK Primer MT @ 5 m²/litre 1 litre & 5 litre pack gives 5m²

DECKPRIME UV in 4.5 litre and 15 litre units @ 100µm dft: 10.0 m²/litre

The rates indicated are for guidance only. The consumption of material will be dependent on the porosity and the condition of the substrate.

APPLICATION TEMPERATURE RANGE

Minimum 5°C
Maximum 35°C

STORAGE AND SHELF LIFE

When stored in a cool environment, in original unopened containers, the material has a shelf life of 12 months.

chines should be used.

CAUTIONS

Contact with skin and eyes should be avoided. It is essential that adequate ventilation is provided and that all personnel avoid inhaling the vapours produced. If working is necessary in a confined area it is strongly recommended that sealed respiratory

equipment is utilised.

Eye contact

Rinse with copious amounts of clean water and seek medical attention.

Skin contact

Rinse with copious amounts of clean water followed by thorough cleaning with soap and water.

DO NOT USE SOLVENTS

Ingestion Seek immediate medical attention.

DO NOT INDUCE VOMITING

FLAMMABILITY

Deckcoat 30 is non-flammable. DECKPRIME 30, Deck Primer MT, Deckprime UV and Deckcoat Cleaning Fluid are flammable. Do not expose to naked flame or other sources of ignition.

FLASHPOINT

Deckcoat 30	>150°C
DECK Primer 30	>60°C
DECK Primer MT	>150°C
DECKCOAT Cleaning Fluid	>40°C
DECKPRIME UV	>40°C

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Important note :

Starke range products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Starke endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation, opinion or information given by it.

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