Green Seal 180

A non-toxic solvent free high build, protective epoxy resin coating.

DESCRIPTION

GREEN SEAL epoxy resin coating specifically developed to protect concrete and steel. Supplied as a two pack system comprising pigmented base and a hardener, it requires only on site mixing to produce an easily applied decorative and chemically resistant finish. GREEN SEAL 180 can be safely used in areas where contact with foodstuffs is envisaged or for coating potable water storage tanks. It is solvent free and can be used with safety in small rooms or tanks without the need to provide special ventilation. GREEN SEAL 180 coatings will not support the growth of bacteria.

Primary uses

For the internal protection of concrete or metal tanks containing drinking water, certain chemicals, oils and fuel. Contact our representative for further advice. Initial cure Final cure Coverage: Finished film thickness: Bond to concrete: As an impervious, resilient and chemically resistant floor or wall coating in food manufacturing plants, breweries, canning and bottling factories. As a gas and vapour barrier. As a protective and decorative coating in laboratories, abattoirs, etc. Other usage areas include oil refineries, paper mills, power stations, garages, hospitals, sugar refineries, hangars and most liquid containment areas.

Appearance and finish

High gloss, heavy bodied, ultra-dense surface. Hygienic and easily cleaned. Standard colors are light grey and dusty grey.

Advantages

- Durable
- Non-toxic
- Waterproof and protective
- High chemical resistance
- High temperature water resistance
- Solvent free
- High build coating
- Easily applied by brush or roller

TECHNICAL DATA:

Color	Light & Dusty Grey
Working life at 25°C:	30 minutes
Packaging	5 kg& 20 Kgs.
Mixed density at 25°C	1.5g/cm³
Initial cure	24 hours @ 25°C
Final cure	7 days @ 25°C
Coverage	0.29 - 0.40kg / m² / coat
Finished film thickness	180-240 microns per coat
Bond to concrete	In excess of the cohesive strength of concrete

APPLICATIONS

Surface Preparations:

The substrate should be a smooth or semi smooth sound surface such as concrete or metal. It most important to ensure that thorough surface preparation is undertaken prior to application of the GREEN SEAL 180 coating.

Concrete:

Ensure concrete is free from excessive laitance, grease, oil, curing compound, etc. Ensure concrete is sound, cutting back where necessary and making good using suitable GS Rep Mortar repair systems. Ensure all blow holes and surface imperfections are made good prior to application of the GREEN SEAL 180 coating.
Ensure concrete is at least 28 days old. Contamination by oil, grease, fats etc. must be removed before other forms of preparation begin. Remove laitance to expose blow holes, by light grit blasting

Steel Surfaces:

All previous surface treatments should be removed taking the surface back to base metal. The base metal should be abraded and preferably shot blasted with grit, steel shot or proprietary abrasive. Where shot blasting is impractical pre-treatment may be carried out with pneumatic de scaling guns, tap hammers, rotary wire brushes or by flame scaling. Cleaning with solvent or a strong detergent is advisable to ensure surface is free from grease etc. Do not allow surface to re oxidize before application of GREEN SEAL 180.

Mixing:

GREEN SEAL 180 is supplied in two pre-weighed components, base and reactor. No additions or omissions are required. Add reactor contents to the base component and mix thoroughly for using a slow speed drill fitted with a suitable mixing paddle until a uniform streak free color is achieved.

Applications

GREEN SEAL 180 coating can be applied using good quality rollers or short haired brushes or by airless spray. It is recommended that GREEN SEAL 180 coating be applied in two coats of contrasting colours to ensure complete coverage.
Prior to the application of each coat the surface should be examined for signs of pin-holing, etc. Where pin-holing is evident these should be filled using GS Flash Grout thixotropic epoxy resin filler.
If the application is delayed more than 16 hours at 40°C or 36 hours at 20°C after the previous coat (the higher the ambient temperature, the shorter the maximum period), then the previous coat must be thoroughly abraded to give an adequate mechanical key and solvent wiped.

Chemical Resistance

GREEN SEAL 180 is resistant to intermittent spillages of the following typically encountered chemicals:

- Formaldehyde, 40% solution
- Sulphuric Acid, 50% solution
- Hydrochloric Acid, 50% solution
- Hydrochloric Acid 5% solution
- Lactic Acid, 50% solution
- Nitric Acid, 10% solution
- Sodium Hydroxide, 50% solution
- Diesel oil
- Wine
- Sea and brackish water
- Aviation hydraulic fuels (Skydrol)
- Vegetable oils

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CURING
Air cured.

PACKGING
Green Seal 180 is available in 5Kg& 20 Kg. Bucket.

Composition:
Two components, non-toxic, pigmented solvent free epoxy resin based compound

Coverage:
0.29 to 0.40kg/m²/coat, two coats are recommended. 180 to 240 microns/coat.

Dry film thickness:
180 to 240 microns/coat.

CLEANING

Tools, brushes and mixing equipment should be cleaned immediately after use and before material has set with plenty of water.

HANDLING & STORAGE:
Green Seal 180 has a shelf life of 12 months if kept in a dry cool place in the original packing

Safety Precaution
Green Seal 180, is of low hazard. Protective gloves, goggles and clothing should be worn. Any contact with eyes or skin should be washed off with soap and clean water. Where this occurs, seek medical advice.

GREEN SEAL CHEMICALS

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