

MasterProtect® 1855

Single component eco-friendly high build hydrophobic coating for foundations

DESCRIPTION

MasterProtect 1855 is a single component, water based, protective coating formulated from high performance ester/acrylic polymers, able to be applied even upon green concrete at 24 hours after placing.

When cured, **MasterProtect 1855** provides excellent abrasion and chemical, including acid, resistance.

USES

MasterProtect 1855 is developed to protect concrete substrates from corrosion and deterioration. It is an ideal protective coating for underground structures and foundations and can be applied on green concrete, serving as a curing compound as well as protection, saving time, labor and cost.

ADVANTAGES

- One component and easy to apply
- Good abrasion and chemical resistance
- UV stable
- Can be applied over damp surfaces
- Can be applied over green concrete to act as a curing compound in addition to a protective coating
- Environmentally friendly and safe to use (free from solvents and carcinogens, e.g. coal tar pitch, hydrocarbon-based solvents, etc.)

PACKAGING AND COLORS

MasterProtect 1855 is supplied in 19 litre units and available in Grey.

TYPICAL PROPERTIES*

Re-coat time @ 25°C	6-7 hours
Surface drying time @ 25°C ASTM D 1640	approx. 45 minutes
Density ASTM D1475	1.27 kg/L
Volume Solids ASTM D2697-03	45%
Pull-off ASTM D4541	>1.0 Mpa
Water permeability BS EN 12390-8 : 2009 @ 5 bar pressure	Nil
VOC EN ISO 11890 Part 2	Approx. 13g/L
Water absorption BS 1881 Part 122	0.2%
Chloride penetrability Table 1 ASTM C1202 : 2012	Very low

CHEMICAL RESISTANCE

MasterProtect 1855 meets ASTM D 543 requirements in resisting the chemicals below:

Lactic Acid 20%	Resistant
Acetic Acid 20%	Resistant
Nitric Acid 5%	Resistant
Ethylene Glycol 40%	Resistant
Copper Sulphate soln. 25%	Resistant
Zinc Sulphate soln. 25%	Resistant
Magnesium Sulphate soln. 25%	Resistant
Tap Water	Resistant
Sea Water	Resistant
Ground Water	Resistant
High Sulphate Water	Resistant
Distilled Water	Resistant

APPLICATION METHOD

Prior to application, the temperature of the material should be in the range of 15-40°C.

MasterProtect 1855 should be well stirred before use. **MasterProtect 1855** can be applied by brush, short nap paint roller or airless spray.

THEORETICAL COVERAGE RATE

2.5m² per litre @ 400-micron wft / coat (Two coats application recommended). Please refer to Master Builders Solutions Method Statements for system specific coverage rates.

The curing time of the material is influenced by the humidity, wind speed, ambient and substrate temperatures. At high temperatures the time required for the coating to be surface dry is shortened accordingly. (See MS for full details).

SUBSTRATE PRE-TREATMENT

The surface to which **MasterProtect 1855** is applied should be clean and free from oil, salt, grease and any other substances which may impair adhesion.

Application should take place within the re-coat intervals of the coating.

If the re-coat interval is missed, then the coated surface should be lightly abraded and cleaned prior to recoating.

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CHEMICAL RESISTANCE

MasterProtect 1855 is meant to be used as a protective coating against below ground environment and external applications. It is not suitable to be used as a high chemical resistant coating against strong acids and alkalis. Contact your local Master Builders Solutions office for specific details.

STORAGE AND SHELF LIFE

Store in original containers, tightly sealed, under dry conditions and at temperatures between 15-25°C. Do not expose to direct sunlight. The shelf life is 12 months in unopened drums when stored in cool and dry conditions at temperatures between 15-25°C.

HEALTH AND SAFETY

Avoid contact with skin and eyes. Wear protective gloves, goggles and clothing. In case of skin contact, rinse immediately with soap and water! In case of eye contact, bathe eyes with water at once, then consult a doctor.

Standard industry manual handling and hygiene precautions should be adopted while handling the product.

SPECIFICATION CLAUSE

Where shown on the contract documents, below ground surfaces shall be protected with a non-toxic, single component, water based, high performance ester/acrylic polymer coating with excellent abrasion and chemical resistance.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

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