

REC COAT 690

Eco-friendly hydrophobic protective coating for concrete

PRODUCT

REC COAT 690 is a single component, high performance protective coating based on a hydrophobic polyester resin, formulated to protect concrete from corrosion and deterioration.

REC COAT 690, when cured, provides an excellent abrasion and chemical resistance.

SCOPE OF USE

REC COAT 690 is developed to be used:

- For underground structures and foundations protection.
- As a protective coating and curing compound for concrete.

ADVANTAGES

- Easy to apply
- UV stable
- Environmentally friendly
- Water based single component
- Good chemical and abrasion resistance
- Excellent resistance to chloride and sulphate
- Can be applied on damp concrete after 24 hours of placing
- Protective coating and curing compound in one application.

CHARACTERISTICS

Specific gravity	1.29 ± 0.05g/cm ³
Color	Grey
Solid content (weight)	55%
Recoating time	6-7 hours @ 25°C
Complete cure	7 days @ 25°C
Drying time (ASTM D 1640)	73 minutes @ 23°C
Water absorption (BS 1881 Pt.122)	0.1%
Water permeability (BS 12390 Pt.8)	Nil
Adhesion strength (ASTM D 4541)	2 MPa
Curing efficiency (ASTM C 309)	Comply (Applied on 24 hours cured mortar)
Chloride Ion Penetration (ASTM C1202 : 2019)	Very low
VOC (ASTM D 3960)	13.1 g/l

CHEMICAL RESISTANCE

Lactic acid 20%	Excellent
NaoH 10%	Excellent
Ethylene Glycol 40%	Excellent
CuSO4 25%	Excellent
ZnSO4 25%	Excellent

Nitric Acid 5%	Excellent
Acetic Acid 20%	Excellent
Magnesium Sulphate 25 %	Excellent
Diesel	Excellent
Tap water	Excellent
Sea water	Excellent
Ground water	Excellent
High sulphate water	Excellent
Distilled water	Excellent

APPLICABLE STANDARD

REC COAT 690 complies with ASTM C 309 requirement in term of water retention (applied at 24 hours) and ASTM D 543 for the above mentioned chemicals.

INSTRUCTIONS OF USE

SURFACE PREPARATION

The substrate must be clean and free from dust, dirt, laitance, oil and grease.

PRODUCT APPLICATION

Stir well before use, **REC COAT 690** can be applied by brush or roller.

Two coats are recommended; the second coat should be applied to the first coat within the specified overcoating times. Ideal application temperature is between + 10°C and + 40°C.

Cleaning

You can remove **REC COAT 690** by using only clean water while it is still wet.

CONSUMPTION

Protective coating: 2.5 m²/L @ 400 micron wft/ coat (Two coats are recommended; coverage rates will highly depend upon substrate porosity).

Curing compound: 5 m²/L per coat

STORAGE

1 year from manufacturing date, in well closed containers stored in cool and dry conditions at temperature below 25°C.

SAFETY PRECAUTIONS

Application should be done in a ventilated area away from any heat source. Wear protective gear for hands and eyes



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and avoid breathing of vapor. If mixed resin comes into contact with the skin, it should be promptly removed before hardening, followed by thoroughly washing the skin with soap and water. In case of heavy vapor inhalation, place affected person in an open-air area. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting. In all cases, seek medical attention. In case of fire, use CO₂ foam to extinguish. Tightly seal containers when not in use, store them away from heat and carefully dispose empty ones.

DISCLAIMER

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