

EISENGUARD ACRY

Single component acrylic
protective coating for
Concrete and masonry



Description:

EISENGUARD ACRY Protective coating system comprises of a single component, penetrating silane/silaxone primer and a single component pigmented top coat, both ready for immediate site use.

Uses:

- High-performance formulation designed for long-term durability.
- Aliphatic acrylate-based coating ensures excellent UV resistance and weatherability.
- Provides effective anti-carbonation protection, preventing the ingress of CO₂ and harmful gases.
- Acts as a barrier against water, chlorides, sulphates, and other aggressive agents.
- Offers a decorative finish with excellent color retention.
- Suitable for use on concrete and masonry substrates.
- Ideal for both new structures and repair/rehabilitation projects.
- Recommended for bridges, flyovers, marine structures, jetties, and other RCC infrastructure exposed to harsh environments.

Advantages/Characteristics:

- Excellent barrier to carbon dioxide, chloride ions, sulphates, oxygen and water
- Allows water vapor to escape from the structure.

- Highly UV resistant aliphatic acrylate gives exceptional resistance to the effect. of long term weathering.
- Highly durable in all climatic conditions.
- Selected range of decorative colors.
- Ease of application - Single pack - no mixing of separate components.

Company Standard Compliance:



Technical Information:

Properties	Description
Appearance	Shades according to RAL card
Specific gravity	1.2 to 1.25 g/cc
Percentage water absorption after 24 hours	Nil
Permeability as per BS:1881 (ml/m ² /s) after 2 hours 6 hours 24 hours 48 hours	Nil Nil Nil 10
Tensile strength(ASTM D638)	> 2.5 N/mm ²

Depth of chloride penetration in mm 24 hours 48 hours	Nil Nil
Elongation (ASTM D638)	> 4%
Adhesive bond strength to concrete (ASTM D4541)	> 2.5 N/mm ²
Alkali & fungal resistance (ASTM D3273)	Passes
Breathability Test (ASTM E96)	Breathable
Resistance to UV radiation (ASTM D822)	Sample subjected to 1000 hrs. accelerated weathering in UV passes

Method of application:

Surface preparation:

- All surfaces must be clean, dry, and free from contaminants like oil, grease, loose particles, laitance, algae, moss, and mould release agents. Light grit blasting is recommended for surface preparation. In case of biological growth, treat the area with a suitable biocide after blasting.

Application:

- In order to obtain the protective properties of the EISENGUARD ACRY system, it is important that the correct rates of application and over coating time are observed.

	PRIMER	EISENGUARD ACRY
No. of coats	As per requirement	2
Application rates	0.4lit/m ²	0.35 lit/m ²
Total dry film thickness	NA	150 micron
Over coating time	2 hours @ 20°C 90 min @ 30°C	6 hours @ 20°C 5 hours @ 30°C

- Application of EISENGUARD ACRY should begin only when the substrate temperature is above 10°C. All sensitive areas such as glass, plants, grass, joint sealants, asphalt, and painted surfaces must be properly masked and protected. The silane/siloxane primer should be applied using knapsack-type spray equipment until a coverage rate of approximately 0.4 L/m² is achieved.

Allow the primer to dry for a minimum of 2 hours at 25°C before applying EISENGUARD ACRY—never coat over a damp or tacky primer. EISENGUARD ACRY should be applied in two coats using a brush or roller (spray application may be used after consultation). Each coat must achieve a wet film thickness of at least 175 microns, and the first coat must dry completely before applying the second. Stir the material thoroughly before each use to ensure consistency and performance.

Cleaning:

EISENGUARD ACRY should be removed from tools and equipment using Redwop Sol.

Limitations:

EISENGUARD ACRY is designed for use on clean, sound concrete or masonry surfaces and is not suitable for application over dense, non-porous substrates. If application over existing coatings or paints is required, trial applications should be carried out to verify compatibility and ensure proper adhesion. Failure to confirm compatibility may affect the overall performance of the system. Always assess the soundness and bonding on a test area before proceeding with full-scale application.

Coverage:

EISENGUARD ACRY has coverage of Around 5.5- 6 m²/litre @ 175 microns WFT/coat.

Packaging:

It is supplied in 5 & 20 litre cans.

Storage & Shelf-life:

1 year from the date of manufacturing if stored in cool dry place under shaded area and if unopened sealed pack condition surface after completion of the preparation work.

Health & Safety:

EISENGUARD ACRY should not come in contact with the skin and eyes, or be swallowed. Adequate ventilation should be ensured and inhalation of vapours should be avoided. Some people are sensitive to resins, hardeners and solvents, hence suitable protective clothing, gloves and eye protection should be worn. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provide additional skin protection. In case of contact with skin, should be rinsed immediately with plenty of clean water and medical advice sought. If swallowed, medical attention sought immediately. Should not induce vomiting.



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