

Ivory 340

Solvent-free, high-build, epoxy coating and tank lining with high chemical resistance and low vapour transmission properties



General Uses:

- Protection of concrete and steel surfaces against corrosion by chemical attack.
- Coating for tanks such as oil storage tanks can be reinforced with glass fibre
- Vapour barrier coating for insulation
- Waterproofing & protection of polystyrene foam



Chemical Resistance*:

Resistant to organic & inorganic acids in varying concentrations, aromatic & aliphatic hydrocarbon solvents, petroleum products including crude oil and fresh & sea water.



Vapour Barrier:

A vapour barrier coating for insulation.

***NOTE:** Comprehensive resistance evaluations have been made. Contact our technical department for specific resistance information.

Technical Profile

NO. OF COMPONENTS

2

EP/ACT BY VOLUME

2:1

POT LIFE (250ml) AT 20°C

15 Minutes

DRYING TIME

Touch dry	5 Hours
Practical cure	24 Hours
Full cure	7 Days

APPLY BY

Brush, Roller and Fluted Roller (for laminate system)

THEORETICAL COVERAGE

Coating System: 4 to 5m²/litre/coat

Laminate System: 0.9kg/m²**

**1 Layer chopped strand fiberglass mat (300gm/m²) + 1 layer fibre surface veil (PRT Reinforcing Tissue)

DFT PER COAT

Coating: 200 microns per coat (2 coats required)
Laminate System: 1100 microns (2 layer application)

RECOMMENDED NO. OF COATS

Number of layers and/or coatings will be project specification dependent, based on expected chemical exposure

OVERCOAT TIME

Min: 5 Hours Max: 48 Hours

APPLICATION TEMPERATURE

Min: 10°C Max: 30°C

SERVICE TEMPERATURE

Wet: 60°C Dry: 90°C

VOLUME SOLIDS

100%

COLOUR

Limited range available

CLEANER

W.S.B.C.

SHELF LIFE

12 Months

* These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

Substrate Requirements

Concrete:

Concrete or screed substrate should be a minimum of 25 MPa and maintain a minimum tensile strength of 1.5 MPa, free from laitance, dust and other contamination. The substrate should have a moisture content of no more than 5%. Mechanically abrade the surface to expose the main aggregate and achieve a surface profile equal to CSP (Concrete Surface Preparation) 2 to 3, in accordance with ICRI Guideline 310.2-1997. Prime concrete substrate with Ivory 340 (4 to 5m²/litre).

Steel:

Steel surfaces to be grit-blasted to Sa2½. Apply Ivory 366 Primer. Where grit-blasting is not possible, surfaces to be thoroughly wire brushed to remove all loose rust (contact Flowcrete Technical Department for primer selection).

GRP Laminate:

G.R.P. laminates – no primer required.

Polystyrene – no primer required.

G.R.P. laminates to be thoroughly abraded and wiped with Solvent AB.

Application

Thoroughly mix together only enough product which can be applied within the recommended pot life using correct mixing ratio.

Coating system:

Apply by brush or roller, two coats at 4 to 5m²/litre/coat.

Laminate system:

Apply a generous primer coat of Ivory 340 Resin and lay in a chopped strand fiberglass mat (300gm/m²) saturating from above with Ivory 340 Resin. While still wet, apply a second layer (project specification dependent) of chopped strand fiberglass mat (300mg/m²) and saturate as above. Into the wet resin, apply a Fiber Surface Veil (PRT Reinforcing Tissue) again saturating same with Ivory 340 Resin. De-aerate each layer with a fluted roller. When cured, sand down surface and apply a final finishing coat (project specification dependent).

NOTE: Should over 48 hours lapse between coats/layers, the surface of the previous coating/layer must be abraded with a medium grit abrasive paper. Solvent wiping using Flowcrete Epoxy Thinners is mandatory after 24 hours exposure.

Installation Service

This installation should be carried out by an Approved Applicator. For details of our Approved Applicators, contact our regional office. Detailed application instructions are available upon request.

Aftercare, Cleaning & Maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.

Environmental Considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs and maintenance. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained application teams.

Focus on the Floorzone

Flowcrete is a market leader in specialist industrial and commercial flooring. Systems available include: floor screeds, surface damp proof membranes, decorative flooring, seamless terrazzo, car park deck coatings, tank lining systems ... to name just a few. Our objective is to satisfy your Floorzone needs.

Warranty

Flowcrete products are guaranteed against defective materials and manufacture and are sold subject to our standard 'Warranty, Terms and Conditions of Sale', copies of which can be obtained on request. Warranty does not cover suitability, fit for purpose or any consequential or related damages. Please review warranty in detail before installing the products.