VERL@C SF

PROTECTIVE COATING FOR CONCRETE AND STEEL SURFACES

BENEFITS

- Solvent free
- Very Low odor, taint free
- Ease of application
- Very good chemical resistance
- Good mechanical properties
- Abrasion resistant
- Excellent adhesion to concrete and steel surfaces
- Available in various colors
- Compatible with all substrates
- Corrosion resistant

PRODUCT

VERL@C SF is a two part, epoxy based, high-build, solvent free, protective coating for concrete and steel surfaces. It confirming to **BS 476 Part-7 : 1971 Class 1.**

USES

VERL@C SF is used as a have hard wearing, hygienic, chemical resistant and taint free coating, suitable for contact with foodstuffs and potable water after cure. Applicable on floors, walls and ceilings.

VERL@C SF provides a tough, hygienic, chemical resistant coating for walls, floors and ducts in dairies, abattoirs, food processing areas etc. It is particularly suitable for lining concrete of water reservoirs since it is taint-free.

DESCRIPTION

VERL@C SF is a solvent-free, Epoxy resin based system, formulated to allow ease of application to both floors and walls. The cured film is extremely tough, and has a smooth, hard, semi glossy finish with good slip resistance properties. **VERL@C SF** has an excellent adhesion to concrete and metal surfaces. It can be used to line drinking water reservoirs and in food processing areas, since after curing, it is taint-free.

Curing Time	**:**	Full Chemical Resistance : 7 days at 30ºC.
Tensile Strength	**:**	25 MPa
Extensibility	**:**	3.9%
Flexural Strength	**:**	36 MPa
Temperature Range	**:**	During Application : 5ºC to 40ºC, In Service : -10ºC to 60ºC
Chemical Resistance	**:**	Resistant to long term immersion

in Water, Petrol, Oil, Diluted Acids and Diluted Alkalies for advice on resistance to specific chemicals please consult our Technical Department.

APPLICATION

Surface Preparation : Surface should be sound and levelled, Blow-holes and surface defects can be made good with **FAIRSCREED VF** Epoxy Putty to facilitate the application of uniform continuous coatings.

Mixing : VERL@C SF Protective Coating comprises of two components, the **BASE** and the **HARDNER**, which are supplied pre-weighed. The Hardener should be poured into the can containing the **BASE** and drained well. The two components should be thoroughly mixed using a mechanical stirrer e.g. electric drill with paddle attachment, until the material is uniform in color and free from stickiness.

Application : VERL@C SF should be applied by brush, roller to give a continuous film on the prepared surface. The second coat should be applied in similar fashion on the following day.

Coverage Rates : The covering capacity of the coating will vary depending upon the porosity and texture of the surface, but as a general guide 10 m²/5 kg. pack for two coat should be allowed. This will give a final coating thickness of 400-450 microns.

Cleaning : Equipment should be cleaned with **VERL@C TOOLCLEAN** immediately after use.

Commissioning : At ambient temperatures of 30ºC or more, **VERL@C SF** will have hardened sufficiently in one day to allow light traffic, but full abrasion and chemical resistance after 5 day

PROPERTIES

Colour : Light Grey, Pale Blue, White (Special shade on request)

Pot Life : 45-50 mins. at 30ºC.

PACKING & COVERAGE

5 kg, Over typical fair faced concrete, 5 kg. pack will cover approx.. 8-10m² with the recommended two coat treatment. This will give an overall dry film thickness of 400-450 microns.

SHELF LIFE & STORAGE

VERL@C SF will have a shelf life of **12 months** in unopened containers when kept in dry conditions at a temperature between 5ºC to 45ºC. Storage at higher temperature or high humidity may reduce shelf life.

HEALTH & SAFETY

Cleanliness in handling Epoxy resins is essential to prevent skin irritation. Please refer to the **VERL@C** Resin Safety HANDLING GUIDE for detailed recommendations.

SPECIFICATION

VERL@C SF is a two part epoxy based,solvent free, protective coating for concrete and steel surfaces having a packing of 5kg and coverage of 8-10m² in accordance with the instruction of HAMCO.

TECHNICAL SERVICES

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our laboratory in LEBANON and technical personnel & experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

Technical Summary For VERL@C SF	
Chemistry	
Color	White, Grey & (Special colors on order)/CLEAR
gloss level	GLOSS-Semi Gloss
Volume Solids	98% ± 2%
typical thickness	98 Micron dry Equivalent to 100 Microns Wet.
theoretical coverage	8 M2 / U.S Gallon at 500 Microns
practical coverage	Allow Appropriate Loss Factor
Flash Point	27 ˚C
Specific Gravity	1.42 Kg/l COLORED ± 3%
Thinner to use	NONE
Application Method	
common application fields	**General Steel & Concrete**
Application methods	Airless/tip: .028''/.030'', pressure at tip not less than 250 bar : Brush OR Roller
Number of Coats	ONE COAT
Recommended time interval between coats at 21˚C WITH PRIMER	24 Hours
hardener	HARDENER SOLIDE SF 28%BY WEIGHT
cleaner	SAFECORE Cleaning Thinner
preparation of substrate	Mechanically or abrasive blasting /OR Acid etching / VERL@C PRIMER PH OR VERLAC PRIMER SF
Dry Time	1.5 Hour Touch Dry, 3 - 5 Hours Hard Depending on thickness of coat
Time to clean application equipment	Immediately after use.
Packaging	1 Quart, U.S. Gallon & Pail
storage	Between 5C and 45C Degrees
Shelve life storage	12 Month
Shipping weight not including pallets and boxes	us gallon- - us pail