

A Two Part Solvent Free High Performance Epoxy Impregnation System

SUBSTRATE PREPARATION

Ensure that the concrete surface is clean and sound. Remove all contaminants including coatings, grease, oil, dirt, excessive laitance, salts and unsound material by grinding, hammering, etc. Where necessary degrease with chemical degreaser.

Any structural cracks should be injected with **Guardian CIR** epoxy resin injection material.

*Note:- Unsound deteriorated concrete that occurred as a result of corrosion of rebars, needs to be removed to behind rebar. Corroded rebar to be cleaned with rust remover. Apply **Guardian Zinc Primer** on cleaned rebar as a corrosion protective coating. Apply **Guardian WEAP** as a bonding bridge on the prepared concrete surface. Apply **Guardian 600 Series** over **Guardian WEAP** bonding bridge to bring back the profile of concrete.*

*In the case of porous substrate, finish the surface defects such as pinholes with **Guardian FC**.*

PRIMING

Mix part A and part B of **Guardian CF (HP) Impregnation** and apply at 0.2 litre/m² (or) 0.22 kg/m² by roller or brush. The pot life is typically 50-60 minutes primer will dry within 2-6 hrs.

Note: if substrate moisture is >4%, use Floorgard Moisture Barrier as primer. Refer TDS for More info.

MIXING

Part A : Part B = 2 : 1 by weight

Mix Part A and B of **Guardian CF (HP) Impregnation** together for at least 3 minutes with a slow speed mixer (max.300 rpm). Avoid aeration while mixing. Mix only the amount that can be used within the pot life. **Guardian CF (HP) Impregnation** should be applied only after 12 hrs minimum curing of **Guardian CF (HP) Impregnation** used as primer.

APPLICATION

- Apply the first layer **Guardian CF(HP) Impregnation** to the concrete substrate with a roller or brush at the coverage rate of approx.0.65 kg/m²
- Apply the precut **Guardian CF(HP) Fabric** firmly over the **Guardian CF(HP) Impregnation** and remove entrapped air by rolling the surface of **Guardian CF(HP) Fabric** 2-3 times in the direction in which it is being placed. This ensures proper impregnation of the **Guardian CF(HP) Impregnation** into the **Guardian CF(HP) fabric**.
- After 2 -6 hrs @23°C, roller apply a second layer of **Guardian CF(HP) Impregnation** at the coverage rate of approx.0.25 kg/m² to completely seal the surface of **Guardian CF(HP) Fabric**.

*Note : Rough substrates consume more material. In the case of additional layers of **Guardian CF(HP) Fabric**, the previous applied layer of **Guardian CF(HP) Fabric & Impregnation** should be cured for at least 24 hrs prior to the second layer application.*

- Full cure of the epoxy resin takes 7 days at 23°C at lower temperatures full cure will require longer time.
- Finish with a coating if required such as **Guardian ELASTOSHIELD** (UV resistant 100% acrylic elastomeric coating).

*Note : **Guardian CF(HP) system** should only be applied by specialist applicators who have had training in the installation of this system. Guardian can provide such training & a list of approved applicators.*

LIMITATIONS

Samples: - Witness samples should be made at site and tested in a laboratory to ensure the material meets the responsible designers requirement.

Substrate & Ambient Temperature should be between 8°C and 36°C. The substrate temperature should be at least 3°C above the dew point.

The product should only be used by experienced professionals. In hot or cold conditions precondition the product 24 hours before use.

Protect from rain for 24 hours after application.

Consult a structural engineer for load calculations & design.

A qualified structural engineer must be responsible for designing the works. Care must be taken in selecting suitably experienced and trained contractors

Protect from permanent exposure to direct sunlight moisture & or water.

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CONSUMPTION RATE

Approximately 0.65 kg/m² for 1st layer.
Approximately 0.25 kg/m² for 2nd layer.

PACKAGING

15 kgs set
Other pack sizes available as per request.

STORAGE & SHELF LIFE

Guardian CF(HP) Impregnation has a shelf life of 12 months from date of production stored properly in original unopened containers in dry conditions at temperatures between +5°C to 35°C. Protect from sunlight.

QUALITY ASSURANCE

ISO 9001: 2015 verified by TUV Nord.

HEALTH & SAFETY

Please consult the latest Safety Data Sheet available on request.

TECHNICAL SERVICE

The Guardian Coating Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc.
Guardian does not take responsibility nor need to defend others testing that does not achieve the published data.
The user must test the products suitability for the intended application and purpose. Guardian reserves the right to change the properties of the product.
Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advice offered.