

Product Information Sheet

CHEMGLASS 300 HP

CHEMGLASS 300 HP is superior vinyl ester base glass flake coating which offers excellent acid, alkali and solvent resistant properties. This three component high build system with heavy duty impermeable chemical resistant barrier fillers is suitable for metal and concrete surfaces.

Advantages

- Glass flakes provide a tough impermeable barrier layer suitable for steel and concrete surfaces
- Excellent resistance to abrasion and cathodic disbondment
- Excellent resistance to severe chemically corrosive environments, acids, alkalies & most of the solvents
- Excellent durability and undercutting resistance- long term protection with longer maintenance free life
- Excellent performance in conc . acid and alkies .
- Resistant to flue gases at high temperature conditions

Recommended Applications

- Chemical plants
- DM plants
- Cement plant bag filter house
- Internal coating of tanks and vessels
- Pipelines and elbows
- Condenser Tube plates and water boxes
- Chimney, High temperature vessels

Typical Properties

Sr. No.	Typical Properties	Test Values
1	Color	Standard grey
2	Practical Coverage (250-300 microns / coat)	2.5-3.00 m ² / ltr
3	Max operating temperature (°C)	200
4	Compressive strength (kg/cm ²)	630
5	Hardness (shore D)	80
6	Volume Solids %	> 99
7	Pull off adhesion strength (kg/cm ²)	140
8	Pot life (minutes) 1.0 kg	15-18
9	Mixing ratio (Resin: Hardener)	By wt. 98:2

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Direction of Use

Surface Preparation

The product performance and service life depends upon proper surface preparation and strict adherence to instructions pertaining to application.

Concrete substrate

- Substrate must be clean, dry, crack free, sound and free from other foreign material to ensure adequate adhesion. Mechanical Scarifying can be done to achieve the desirable floor surface.
- Remove oil and grease by scraping / washing with strong detergents or cleaner and degreaser.
- For vertical applications rough the substrate properly and remove dust by vacuum cleaning.
- The concrete should be tested for moisture content before application. Areas where moisture exceeds 3.0 lbs/24 hrs/1000 sq feet using calcium chloride moisture test require special precautions specified in ASTM F 1869.

Metal substrate

- Remove all oil and grease from surface by solvent cleaning as per sspc –sp-1 procedure.
- Any unevenness in the joint parts must be flattened by grinder machine and then sand blasted. If sand blasting is not permissible, portable grinder or any other rust removing and cleaning process is recommended.
- It is recommended that the surface should be grit blasted to a near white metal standard. The finish surface roughness should be measured with ISO 8501 -1-1988 SA 2.5
- Blasting of surface should not be carried out when relative humidity is above 85% and atmospheric temperature is $<5^{\circ}\text{C}$.
- Damp surface will need preheating to warm touch for removal of moisture.

Mixing

- Before mixing of hardener and resin, stir the resin as well as hardener part separately.
- All the three components should be mixed thoroughly until a mixture of uniform color is obtained.
- Be sure to mix along the sides and bottom.
- Let the mixed product stand for 1-2 minutes for de-aeration and maturation. In case of ambient temperature less than 20°C , maturation time should be increased to 5-10 minutes.

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Application

Primary Coating

- Immediately after grit blasting, a thin layer of primer of 60-70 microns should be applied.

Secondary Coating

- Apply mixed material on the prepared surface by airless spray or roller or brush or trowel.
- The desired thickness is recommended to be achieved in 2 or 3 coats of Chemglass 300 HP
- Contamination before application of subsequent coat should be avoided.
- Recoating interval will be as soon as gel has occurred and whilst still tacky. It is generally 30 minutes – 2 hours (touch dry) but will vary as per the climatic conditions. Once maximum recoating time has been reached, adhesion values attained by any subsequent coat will reduce dramatically and over coating should then be treated as a repair. Styrene cannot be used to reactivate the surface of the product and may impair adhesion.

Post curing

- For higher chemical and corrosion resistance at high temperature, it is recommended to post cure coated surface at 80 deg. C for 4 – 6 hrs.

Shelf life

Six months if stored under recommended conditions of storage

Warning

May cause burns to eyes and skin.

May be harmful if swallowed.

Do not take internally.

In case of eye contacts, wash thoroughly with water and consult doctor.

Disclaimer

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.