Strongcoat PF200

Pitch free, epoxy protective coating

DESCRIPTION

Strongcoat PF200 is a solvent free, non-toxic, pitch free epoxy coating with outstanding mechanical and chemical properties.

Strongcoat PF200 is supplied as a two component product in pre-weighed base and hardener packs, ready for site mixing.

APPLICATIONS

Strongcoat PF200 is designed for internal applications such as:

- High chemical resistant protective coating for the sewage and waste water industry.
- Heavy duty protective coating for aggressive immersion conditions on cementitious & metal substrates.
- Lining of tanks, manholes, pipes, jetties, piers, ducting, coating concrete, asbestos cement, steel pipes and non-ferrous metals.
- Protective coating for concrete and steel structures in off shore or marine environments.

ADVANTAGES

- Produces a seamless, glossy, glass-like surface that is both easy to clean and does not induce bacterial and fungal growth.
- Excellent chemical and mechanical resistance.
- Resistant to sewage effluents.
- Exhibits excellent abrasion resistance.
- Cost effective; does not require primer.
- Easily applied by brush, roller or spray.
- Non-Toxic, Non-Carcinogenic, suitable for use in contact with potable water.
- Solvent free, environmentally friendly coating.

METHOD OF USE

SUBSTRATE PREPARATION

Concrete surfaces:
The Substrate should be sound, clean and free from contamination. Surface Laitance should be removed by grit blasting or water jetting. All exposed blow holes should be filled with epoxy paste using Quickmast 341.

Steel surfaces:
All surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA 2 1/2.

TECHNICAL PROPERTIES:

Colour:	Various
Solid content:	100%
Specific gravity:	1.6 ± 0.1
Pot life:	100 min @ 25°C 45 min @ 35°C
Re-coatable time: Minimum Maximum	 4 hr @ 25°C 24 hr @ 25°C
Full cure:	After 7 days @ 25°C
Taber abrasion resistance: (1000 g, 1000 cycle) ASTM D4060, weight loss CS17 wheel	55 milligram
Compressive strength: BS 6319-2	≥ 75 MPa @ 7 days
Tensile strength: BS 6319-7	≥ 15 MPa @ 7 days
Flexural strength: BS 6319-3	≥ 30 MPa @ 7 days
Bond strength over C25/30 concrete: ASTM D4541	≥ 3 MPa @ 7 days (substrate failure)
Chemical resistance:	Refer to DCP chemical resistance table
VOC: ASTM D2369	≤ 10 g/ltr (complies with LEED)

PRIMING

Strongcoat PF200 is designed to be applied over well prepared steel and concrete substrates directly without a primer. If the application will take place over other substrates, please consult DCP's Technical department for advice.

Ayla for Building Materials Industry & Trade
Mosel Road, Erbil
Oweirj Industrial, Baghdad
info.iraq@dcp-int.com
www.dcp-int.com

Strongcoat PF200

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with a suitable paddle should be used. Stir the content of each component separately to disperse any settlement.

Add the entire content of the hardener to the base and mix for 3 minutes and until a uniform colour and consistency are achieved.

APPLICATION

Strongcoat PF200 can be applied by brush, roller, or an airless spray machine. The first coat should be applied to obtain a continuous uniform coating.

The second coat should be applied depending on the required thickness, it should be applied within the over coating time to achieve the maximum adhesion between the two coats.

Notes:

- *Strongcoat PF200 should not be applied over existing coatings. However, it can be applied on top of itself, by maintaining the mentioned over coating time.*
- *Application should not be undertaken if the temperature is below 5°C, nor when the relative humidity exceeds 90%.*
- *Application should not be carried out, when there is standing or running water.*
- *Strongcoat PF200 is not colour stable when exposed to direct sun light nor when in contact with some chemicals. However, this colour change does not affect the performance of the coating.*
- *Precaution is recommended if the application is taking place at high temperatures (above 30°C).*

CLEANING

All tools should be cleaned immediately using DCP Solvent. Hardened material must be cleaned mechanically.

PACKAGING

Strongcoat PF200 is available in 5 kg packs (3.1 litre) and 20 kg (12.5 litres) packs.

OCCASSIONAL SPILLAGE.

Chemical Resistance after full cure (7 days @ 25°C), ASTM D1308 (Spot - test @ 1 hr)

Organic Acids	
Oleic Acid sat.	RS
Citric Acid 25%	R
Vinegar 10%	SS
Inorganic Bases	
Sodium Hydroxide 50%	R
Ammonia Solution 10%	R
Potassium Hydroxide 50%	R
Aquous Solutions	
Sodium Chloride sat	R
Tap Water	R
Chlorinated Water	R
Dead Sea Water	R
Solvents	
White Spirit	R
Xylene	R
Toluene	R
Acetone	R
Oils & Fuels	
Benzyl Alcohol	RS + SS
Brake Fluid	R
Engine Oil	R
Diesel	R
Kerosene	R
Detergents & Soaps	R
Inorganic Acids	
Sulphuric Acid 25%	R
Phosphoric Acid 20%	RS
Hydrochloric Acid 10%	R
Nitric Acid 25%	RS

Ayla for Building Materials Industry & Trade
Mosel Road, Erbil
Oweirj Industrial, Baghdad
info.iraq@dcp-int.com
www.dcp-int.com

Strongcoat PF200

COVERAGE

Approximately 0.16 kg/m^2 per coat. Two coats should be applied to achieve a total of 200 microns dry film thickness.

STORAGE

Strongcoat PF200 has a shelf life of 12 months from date of manufacture if stored in dry conditions at room temperature in original unopened packs Strongcoat PF200.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Strongcoat PF200 should not come in contact with skin or eyes. Goggles and gloves should be used.
In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information, refer to the Safety Data Sheet.

FIRE

Strongcoat PF200 is nonflammable.

CHEMICAL RESISTANCE	
Based on test method ASTM D1308, after 7 days immersion in the below chemicals.	
Nitric Acid 10%	RS
Phosphoric Acid 20%	RS
Hydrochloric Acid 10%	RS
Vinegar 5%	RS
Sulphuric Acid 25%	RS
Ammonia Solution 10%	R
Tap Water	R
Sodium Chloride Sat.	R
Diesel	R
Engine Oil	R
Brake Fluid	R

R: Resistant
RS: Resistant with slight discoloration
SS: Slight softining

Ayla for Building Materials Industry & Trade
Mosel Road, Erbil
Oweirj Industrial, Baghdad
info.iraq@dcp-int.com
www.dcp-int.com

Strongcoat PF200

MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening.

Ayla for Building Materials Industry & Trade
Mosel Road, Erbil
Oweirj Industrial, Baghdad
info.iraq@dcp-int.com
www.dcp-int.com

06-0055-A-2022