



APTC

Fairing Coat

Technical Data Sheet

PRODUCT

Fairing Coat is a polymer modified single component cementitious feathering mortar.

DESCRIPTION

Fairing Coat is a polymer modified fine feathering mortar for applications in thin layers to produce a natural concrete grey appearance to concrete or masonry surfaces. It can be applied up to a maximum thickness of 3mm. Fairing Coat is based on hydraulic binders, high grade quartz sand and synthetic polymers and is shrinkage compensated.

Fairing Coat will adhere well to most cementitious or masonry surfaces provided the surface is clean and film free and has some porosity for bond to develop.

RECOMMENDED USES

- ⇒ Thin layer patching for vertical, horizontal and overhead applications.
- ⇒ Rendering over porous or damaged concrete structures
- ⇒ Levelling of uneven surfaces prior to coating.
- ⇒ Repairs where uniform concrete colour is required.
- ⇒ Repairing honeycomb concrete, cracks and pinholes.
- ⇒ Tilt slab and precast concrete.
- ⇒ Application of render over brickwork.
- ⇒ Applications of Fairing Coat over existing concrete or masonry surfaces.

- ⇒ Applications requiring a thin build of Fairing Coat to 3mm.

FEATURES & BENEFITS

- ⇒ Single component system pre blended powder, simply add water and mix.
- ⇒ Excellent bond strength and adhesion and bond to concrete or masonry surfaces.
- ⇒ Feather edging is possible.
- ⇒ Shrinkage compensated.
- ⇒ Easy to use and apply.
- ⇒ No primer or curing compound is required for most work.
- ⇒ For internal or external use.
- ⇒ Durable, low water permeation.
- ⇒ Can be used in vertical, horizontal and overhead applications.
- ⇒ Light off grey colour.

PACKAGING

Fairing Coat is supplied in a 20kg polylined bag.

APPROXIMATE WORKING TIMES

Temperature	Time in Minutes
10°C	60
20°C	30
30°C	20

Physical Properties

PERFORMANCE PROPERTIES			
Test Standard	AS1012.9 at 20°C		
TYPICAL COMPRESSIVE STRENGTH	Age	28 days	>25 Mpa
TYPICAL FLEXURAL STRENGTH	Age	28 days	>7 Mpa
TYPICAL BOND STRENGTH	Age	28 days	>2 Mpa
FRESH WET DENSITY	AS1012.5	1900 kg/m ³ approx.	

APPROXIMATE SETTING TIMES		
Test Standard	Vicat setting times at 20°C	
Initial Set	20°C	45 Minutes
	30°C	30 Minutes
Final Set	20°C	60 Minutes
	30°C	40 Minutes

APPLICATION THICKNESS

Minimum Feather Edge
 Maximum 3mm

APPLICATION TEMPERATURE

Minimum 5°C
 Maximum 35°C

WATER REQUIREMENT/20KG BAG

5.8 – 6.2 litres per 20kg bag.

APPLICATION INSTRUCTIONS

SUBSTRATE & SURFACE PREPARATION

Surfaces to which Fairing Coat are applied should be clean, sound, free of dust and loose particles. Cement laitance, oil, grease, mould release oil or curing compounds must be removed from concrete or masonry surfaces by using a wire brush, bush hammer, scabblor, grit blaster or other means. During application the temperature of the substrate should not be below 5°C. To avoid high surface temperatures, it is advised to shade area during the period of application

PRIMING

Fairing Coat is designed to adhere to most clean

cementitious or masonry surfaces, without the need for priming where bond is required to the substrate.

At elevated temperatures it is desirable to pre soak areas in which Fairing Coats to be applied with water prior to application.

MIXING

Care should be taken to ensure that the Fairing Coat is thoroughly mixed. Small quantities (up to 2kg) can be mixed by hand using a suitable mixing drum or bucket. Greater quantities of Fairing Coat must be mixed with a mechanical forced action mixer with a high shear stirrer.

If mixing small quantities by hand the maximum should be volume batched. Add approximately 5 volumes of the Fairing Coat powder (loose-filled to excess and struck off level with the top of the measuring container) to two volumes of drinking quality water. This should be mixed until fully homogeneous and uniform.

When mixing complete bags add between 5.8 to 6.2 litres of drinking quality water into the mixing vessel and, with the mixer in operation, add one full 20kg bag of Fairing Coat and mix for 3 to 5 minutes until fully homogeneous, uniform and lump free.

Dependent on the ambient temperature and the desired

consistency, the amount of water required may vary slightly but should not exceed 6.2 litres per 20kg bag of Fairing Mortar.

Excess mixing water may result in surface crazing, cracking as well as lower strength and adhesion.

Note: In all cases Fairing Coat powder must be added to water.

DO NOT MIX MORE THAN 2-3KG BY HAND.

PLACING

Apply the mixed Fairing Coat to the prepared substrate by steel trowel from a feather-edge up to 3mm thickness. It should be applied with the minimum of working and be allowed to partly set before finally trowelling to finish. If a very smooth finish is required, a steel trowel should be used. Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation.

DO NOT ADD EXCESS WATER.

Note: Maximum applied thickness of Fairing Coats 3mm.

POT LIFE

Setting begins after 30-40 minutes (at 25°C substrate and ambient temperature) and ends after another 50-60 minutes. The working period depends very much on the product temperature and on the amount of mixing water added. Therefore, the times given above should be regarded as a guideline. The lower the temperature, the longer the setting time. The less water added, the shorter the setting time. The addition of water to the mortar after it has started to stiffen is not recommended and the product should be discarded.

FINISHING

Fairing Coat should be finished with a steel trowel.

LOW TEMPERATURE WORKING

In cold conditions down to 5°C, the use of warm water (up to 30°C) is advised to accelerate strength development. Normal precautions for winter working with cementitious materials should then be adopted.

The material should not be applied when the substrates or air temperature is 5°C and falling.

HIGH TEMPERATURE WORKING

At temperatures above 35°C, the material should not be used as this will cause premature setting and make working with the product difficult.

CURING

Fairing Coat does not normally require curing. In hot, dry or windy conditions all cementitious based mortars have to be protected against too rapid surface drying and evaporation. Under harsh conditions, protective measures should be taken to reduce water loss.

Fairing Coat must be cured immediately after finishing in accordance with good concrete practice. The use of acrylic based sealer sprayed, brushed or rolled on the surface of the finished Fairing Coat in a continuous film, is recommended when maximum curing is required.

An acrylic based sealer should be applied at coverage of 4-5m² per litre.

Primer should be applied immediately after final trowel. In very extreme temperatures material should not be applied.

APPLICATION OF COATING

Fairing Coat, when cured, has excellent resistance to water. However, if areas are subject to continuous water immersion or chemical attack from solvents or acids, suitable coatings should be applied. To ensure a long lasting highly protective coating, it is recommended that up to two coats may be applied. The first coat should be applied 12-24 hours after the Fairing Coat has been applied. The second coat may be applied the following day or as soon as the first coat has dried.

PRECAUTIONS

- ◇ Fairing Coat should not be used when the temperature is below 5°C. Fairing Coat should not be used in temperatures greater than 35°C.
- ◇ Fairing Coat should not be applied greater than 3mm thickness in any given application.
- ◇ For concrete substrates subject to rising damp or moisture, a waterproof membrane is required.

- ◇ New concrete surfaces must be at least 7 days old prior to application of Fairing Coat.
- ◇ To avoid too rapid drying, protect applied Fairing Coat from direct sunlight or drying winds during actual application, and while curing for up to 24 hours.
- ◇ If the substrate on to which Fairing Coat is applied moves or cracks, reflective cracking will occur in the Fairing Coat.

YIELDS

The approximate yields are obtained if mixed in accordance with the recommended procedures and accurately measured water content. A 20kg bag of Fairing Coat with 5.8 litres of water will yield approximately 13 litres. 78 bags required per cubic metre. The recommended application thickness of Fairing Coat is 3mm.

CLEAN UP

Fairing Coat should be removed from tools and equipment with clean water immediately after use.

STORAGE

Fairing Coat has a shelf life of approximately 8 months, if kept in a dry environment completely away from moisture.

HEALTH & SAFETY

This product is classified as hazardous according to criteria of Work Safe Australia. Material containing Portland Cement and sand now fall into this category.

Continuous or extended contact with this product may cause irritation as well as respiratory issues such as bronchitis or silicosis.

- ◇ During use avoid inhalation of dust and contact with skin and eyes.
- ◇ Suitable protective clothing, dust masks, gloves and eye protection should be worn.

- ◇ Continual or extended contact with cement products can cause skin irritation.
- ◇ If skin irritation occurs, remove contaminated clothing and flush skin thoroughly with water for a minimum of 15 minutes. Contact Poisons Information Centre or consult medical adviser.
- ◇ Material Safety Data Sheets (MSDS) are available on request from the office. Read the MSDS and product data sheet carefully before using any product.

DISCLAIMER

Please Note: Recommendation and advice regarding the use of this product is to be taken as a guide only and APTC Australia shall not be liable for any inaccuracy in the information or for any loss, injury or damage whatsoever resulting from its use. To the full extent permitted by law, APTC Australia 's liability is limited at its discretion, to the replacement of the goods or the supply of equivalent goods.

FIRE

Fairing Coatis non flammable.

