



Product description

Single component polymer modified cementitious fairing compound. Plasterfine cementitious fairing coat is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent cementitious fairing mortar.

The material is based on a blend of cements, graded aggregates, special fillers and chemical additives to provide a material with good handling characteristics, whilst minimising water demand. The product exhibits excellent thermal compatibility with concrete and is fully compatible with other Ramset mortars.

Recommended uses

Plasterfine cementitious fairing compound is designed for application in thin layers to produce a fairfaced appearance to concrete or masonry surfaces in readiness to receive a protective/decorative coating. Surface imperfections up to 3 mm in depth can be filled using a scrape coat application. Voids of greater depth should be separately filled as a prior operation, again limiting the material thickness to 3mm.

Plasterfine can be used independently to fill surface imperfections and voids or to render large sections of concrete, brickwork or masonry at up to 3mm thickness. It can also be used in association with other Ramset mortars. Under normal conditions, the product does not require an independent primer or curing membrane.

Features and benefits

- Easy to use – no independent primer or curing membrane necessary
- Suitable for vertical and overhead use
- Excellent bond to the concrete substrate
- Can be applied from 3mm to a feather edge
- Pre-blended to overcome site-batched variations – only the site addition of clean water is required
- Contains no chloride admixtures
- Highly suited as a base for protective / decorative coatings.

Standards compliance

PLASTERFINE has been approved by the British Board of Agreement.

Limitations

- Should not be used when the temperature is below 5°C and falling.
- Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation. Exposure to rainfall prior to the final set may result in water uptake and a severe reduction in the performance of the hardened product.
- Should not be exposed to moving water during or after application. Any doubts arising concerning temperature or substrate conditions, consult Ramset Technical Advisory Service.
- Use only as described in the recommended uses section of this datasheet.

Design criteria

Plasterfine cementitious fairing coat is designed for vertical and overhead use to fill honeycombing, blow holes and other voids up to 3mm deep in the surface of concrete. Consult Ramset's Technical Advisory Service for further information.

Properties

The following results were obtained at a water:powder ratio of 0.3:1 by weight or 1:3 by volume and temperature of 20°C.

Test method	Typical result
Coefficient of thermal expansion	7 to 12 x 10 ⁻⁶ /°C
Setting time (BS 4550)	30 mins – one hour*
Fresh wet density	Approximately 2000kg/m ³

Note: Working life and setting time will vary dependent on ambient and substrate temperatures.



Concrete Repair, Additives and Grouts

Specification clauses

Fairing coat

The fairing coat shall be Ramset Plasterfine, a single component polymer modified cement-based blend of powders to which the site addition of clean water only shall be permitted. The material shall be capable of use without independent priming and curing systems.

Application instructions

Preparation

Clean the surface and remove any dust, unsound material, plaster, oil, curing or mould release agents, paint, grease, corrosion deposits or algae. Roughen the surface to remove any laitance and expose the fine aggregate by light scabbling or grit-blasting.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser. The effectiveness of decontamination should then be assessed by a pull-off test.

Plasterfine requires no additional preparation prior to the application. No independent priming system is required. The cleaned areas should be blown clean with oil-free compressed air before continuing. All prepared areas should be thoroughly soaked with clean water immediately prior to the application of Plasterfine. Any residual surface water should be removed prior to commencement. Under severe drying conditions repeated soaking may be necessary to ensure the substrate is still saturated at the time of application.

Care should be taken and the work scheduled to ensure the water does not run onto areas of Plasterfine less than 12 hours old.

Mixing

Care should be taken to ensure that Plasterfine is thoroughly mixed. Small quantities (up to 10kg) can be mixed by hand using a suitable mixing drum or bucket. Mixing in a suitably sized drum using an approved spiral paddle in a slow speed (400/500 rpm) heavy-duty drill is an acceptable alternative.

If mixing small quantities by hand, Plasterfine should be volume-batched. Add 3 volumes of the Plasterfine powder (loose-filled to excess and struck off level with the top of the measuring container) to one volume of drinking quality water. This should be mixed vigorously until fully homogeneous.

For larger volumes, place 5.0 to 6.0 litres of drinking quality water into the mixer and, with the machine in operation, add one full 18kg bag of Plasterfine and mix for 3 to 5 minutes until fully homogeneous.

Dependent on the ambient temperature and the desired consistency, the amount of water required may vary slightly but should not exceed 6.0 litres per 18kg bag of Plasterfine.

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

Placing

Apply the mixed Plasterfine 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 a smooth finish. If a very smooth finish is required, a small amount of water may be flicked on to the surface of the Plasterfine with a paint brush prior to final trowelling.

Do not apply when rainfall is imminent unless in a sheltered or protected situation.

Note: The maximum applied thickness of Plasterfine is 3mm.

Low temperature working

Normal precautions for Winter working with cementitious materials should be adopted. The material should not be applied when the substrate and/or air temperature is 5°C and falling. At 5°C static temperature or at 5°C and rising, the application may proceed.

High temperature working

At ambient temperatures above 35°C the material should be stored in the shade and cool water used for mixing.

Curing

Plasterfine does not require any form of curing in moderate ambient conditions, but under rapid drying conditions curing may be necessary. In this case Plasterfine should be cured immediately after finishing in accordance with good concrete practice. The use of Nitobond AR, sprayed on to the surface of the finished Plasterfine in a continuous film is recommended. Large areas should be cured as trowelling progresses (0.5m² at a time) without waiting for completion of the entire area. In very fast drying conditions, supplementary curing with polythene sheeting or wet hessian taped down at the edges should be used.

In cold conditions, the finished application must be protected from freezing. Overcoating with protective decorative finishes Plasterfine may be overcoated with a protective barrier/decorative coating after a minimum of 48 hours.



Concrete Repair, Additives and Grouts

Clean Up

Plasterfine should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

Supply

Plasterfine is supplied in 18kg bags.

Coverage and Yield

Approximately 11.0 litres / 18kg bag (3.6 m² at 3mm thickness)

STORAGE

Shelf life

Plasterfine has a shelf life of 6 months if kept in a dry store in the original, unopened bags or packs.

Storage Conditions

Store in dry conditions in the original, unopened bags or packs. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced to 4 to 6 months.

Health and safety

Warning

Plasterfine contains cement powder which when wet is alkaline and can cause burns to the skin. Avoid contact with the skin and eyes, avoid breathing dust.

Precautions

Wear an approved dust mask, PVC gloves and eye protection when mixing or using. Material Safety Data Sheets (MSDS) are available from Ramset. Read the MSDS and product data sheet carefully before using any product. MSDS available from www.ramset.co.nz or call 0800 726 738.

First Aid

Swallowed: Do not induce vomiting, give a glass of water to dilute and contact a doctor immediately.

Skin: Remove contaminated clothing, wash with warm soapy water. Do not scrub.

Inhaled: Remove person to fresh air. Get medical advice if breathing becomes difficult.

Eyes: Hold open and flood with water for at least 15 minutes. Get medical advice.

Fire: Plasterfine is non-flammable.

Disposal: Dispose of according to local authority regulations. Do not dispose down drains or into local waterways.