

NUPATCH COSMETIC

Fast Setting Repair Mortar

Description

A range of simple to use polymer modified cementitious compounds which develop high strength at an early age for the repair of both insitu and precast concrete.

Grades Available: Grey, White and Special. Other colours are available upon request.

Applications

- Repair of precast concrete units.
- Repair of damaged insitu concrete.
- Repair of concrete pipes.
- Repairs to concrete floors, roads, kerbs and steps.

Advantages

- Only requires the addition of water.
- Excellent bond strengths.
- Rapid strength development.
- Chloride free.
- Good workability and finishing properties.
- Ideal for use under cold damp conditions.
- Grey and White easily blended to match most shades of concrete.
- Polymer modified.
- Ideal for all types of small concrete repairs.

Technical Information

Mixing Ratio:	Addition of between 10% to 12% water (by weight)
Full Cure:	Within 28 days @ 20°C
Ultimate Compressive Strength:	35 - 45 N/mm ² (using 10.5% addition of water)
Yield:	Approximately 500cc/kg 80 x 25 kg packs/m ³
Shelf Life:	12 months (unopened containers)
Normal Working Temperature:	0 - 25 °C

Surface Preparation

1. Ensure the surface is clean, free from laitance, loose material, grease or oil. If necessary "hack out" until a clean, sound surface is obtained, preferably cutting the edges square rather than feather edging.
2. Thoroughly moisten surface but ensure no free water remains.

Priming

Nupatch Cosmetic may be applied directly onto the prepared concrete. However, it is advisable to coat the prepared surface with a thin Nupatch Cosmetic water slurry (4:1 by volume) and then follow on immediately with the Nupatch Cosmetic mixed into a mortar consistency.

Mixing & Placement

1. Nupatch should be mixed with clean water in a clean container at a ratio of 10% to 12% by weight, adding Nupatch to the water until the desired consistency is obtained.
2. Place material within usable life which depends on temperature (see table 1), after which time it may be finished as concrete using a moistened steel float or trowel.
3. Coarse or fine aggregate may be used to extend Nupatch up to a ratio of 1:1 by volume. This is particularly useful when filling large voids or as a means of reducing costs. However, in these circumstances the initial strength development will be delayed and the final strength will be reduced.
4. All equipment should be cleaned with water before Nupatch hardens.

Packaging

Nupatch Grey is available in 7.5 kg and 25 kg polythene packs.
 Nupatch White is available in 7.5 kg and 25 kg polythene packs.
 Nupatch Special is available in 7.5 kg and 25 kg polythene packs.

Storage

Nupatch should be stored in dry conditions and the lids replaced on containers when not in use.

Health & Safety

Non-flammable, normal precautions should be used as with all cementitious materials.

Limitations

Excessive water addition will reduce strength and possibly induce shrinkage cracking as experienced with all cementitious compounds.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.
 Technical representatives are available throughout the UK to provide further information and arrange demonstrations.

Temperature °C	Usable Life (mins)	Average Compressive Strengths (N/mm ²)					
		2 hr	4 hr	24 hr	7 days	14 days	28 days
20°C	10	13.5	17.0	23.0	34.0	36.5	42.5
10°C	15	1.0	7.4	18.1	26.5	30.7	35.0
5°C	27	0.0	2.0	17.9	25.5	30.4	35.0



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