

FASTPATCH - Grey & White

Fast setting, structural grade, colour matching repair mortar

DESCRIPTION

Fastpatch is a pre-packaged, polymer modified repair cement for rapid structural repairs to in-situ and pre-cast concrete. It is especially suitable for repairs which need to be colour matched to the parent concrete to provide a high quality aesthetic finish. It is also suitable for repairs to damaged, honeycombed or "boney" concrete in new build construction as no primer is required. It can be used in both vertical and overhead applications. Coloured aggregates can be used as well as colour pigments to form different colours and textures.

ADVANTAGES

- **USER FRIENDLY:** Materials are pre-packaged and only require mixing with clean water on site. No special primers are necessary.
- **COLOUR MATCHING:** Grey and White grades which can be blended easily for perfect colour match. Coloured aggregates can be blended in as well as concrete pigments if required.
- **COMPATIBLE:** Physical properties of cured mortar similar to base concrete.
- **FINISHING:** Excellent finishing and feather edging characteristics.
- **LOW SHRINKAGE:** Maintains high bond strength to substrate and ensures monolithic performance of the repair.
- **RAPID SETTING:** Rapid strength development - over 9N/mm² in 2 hours.
- **WATERPROOF:** ISAT tested as waterproof when cured.
- **POLYMER MODIFIED:** Ensures enhanced adhesion and low permeability, giving excellent protection from acid gases, moisture ingress and chlorides.
- **SAFE:** Very low alkali content ensures low hazard in use and negligible risk of alkali silica reactions. Chloride free.
- **COMPLIANCE:** Complies with Clause 6 of the DTp Standard BD 27/86.

TECHNICAL DATA

	GREY	WHITE
Compressive Strength at 20°C:		
2hrs	15.0N/mm ²	9.0N/mm ²
24hrs	20.0N/mm ²	23.5N/mm ²
7days	28.0N/mm ²	37.0N/mm ²
28days	41.5N/mm ²	50.0N/mm ²
Flexural Strength (BS 4551): 11.0N/mm ² 10.0N/mm ²		
Bond Strength (BS 6319: Part 4)-Slant Shear Method:		
28days	29.2N/mm ²	32.0N/mm ²
Water Permeability (BS 1881: Part 5):		
10 mins	Zero	Zero
2hrs	Zero	Zero



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(14)

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EN1504-3: Concrete repair product for structural repair
PCC (based on hydraulic cement polymer modified)

Compressive Strength:	Class R1 ≥ 10Mpa
Adhesive Bond:	Class R3 ≥ 1.5Mpa
Chloride Ion Content:	≤ 0.05%
Dangerous substances:	Complies with 5.4
Reaction to Fire:	Class F

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PREPARATION - NEW BUILD STRUCTURES

Mechanically remove all damaged concrete back to a sound core. Wherever possible the full circumference of the steel reinforcement should be exposed, but it is not a necessity. On cutting back, feather edges must be avoided. The perimeter of the repair area should ideally be stepped to a depth of 5mm by means of saw, disc cutting or preferably using a power chisel. Fastpatch can however be virtually feather edged due to its superior polymeric properties.

The areas to be repaired must be free from all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Smooth surfaces should be roughened, all loose material and surface laitance removed.

PREPARATION - OLD EXISTING STRUCTURES

Mechanically remove all damaged concrete back to a sound core. Wherever possible the full circumference of the steel reinforcement should be exposed and should, if necessary, extend along the length of the corroding bar for at least 50mm beyond the point at which corrosion is visible. On cutting back, feather edges must be avoided. The perimeter of the repair area should ideally be stepped to a depth of 10mm by means of saw, disc cutting or preferably using a power chisel.

The areas to be repaired must be free from all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Smooth surfaces should be roughened, all loose material and surface laitance removed and reinforcement cleaned to bright steel.

PRIMING

Fastpatch does not use a separate priming system. The prepared substrate should be thoroughly soaked with clean water until uniformly saturated without any standing water, this will reduce suction. Remove any excess surface water prior to application of the repair mortar. If the concrete to be repaired is new (hours old), then use warm water to prevent thermal shock.

MIXING

Fastpatch should be mechanically mixed in a clean drum using a slow speed drill and paddle or a forced action pan mixer. A normal concrete mixer is **NOT** suitable. Small mixes (2kg or below) can be done by hand, above this mechanical mixing is a must.

Mix **Fastpatch** with clean water in the ratio of 12% by weight or 5–6 parts to 1 water by volume. Mix only sufficient material for use within the working life of the material. Adding powder to water ensures easy hand mixing of small quantities to produce a smooth mortar consistency. DO NOT attempt to re-mix mortars by the addition of more water after the initial mixing process is completed. Use without delay.

PLACING

For small repairs and the initial layer (25mm maximum) of deep repairs, use unfilled **Fastpatch** mortars to ensure maximum bond and protection. Trowel the mortar firmly into place on the dampened surface, completely covering any exposed steel. Allow to stiffen for 4-5 minutes (dependent upon temperature and water content) before working the surface with a clean, damp trowel which enables the repair to be trimmed, arrises cut and a final profile of a high quality achieved.

The required texture can be easily obtained with either a steel spatula or a polystyrene block. Do not “wet down” the patch repair during this period. For larger repairs (above 25mm), use the layer technique (25mm maximum per layer) to minimise exotherm. Score the surface of each layer lightly and allow to cure for 25-30 minutes before lightly damping down and applying subsequent layers. The addition of aggregates in subsequent layers will give economy and strength without affecting the monolithic state of the repair.

For deep holes or plugging consideration should be given to other more suitable products in our range such as **Fastplug** or **Tieplug**.

All tools should be cleaned with water immediately after use.

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CURING

Fastpatch cement used in small repairs does not normally require curing. However, for large repairs, screeds, or its use in hot climatic conditions, normal concrete curing techniques are recommended, i.e. damp hessian, white polythene sheet or suitable acrylic curing membrane.

COVERAGE - YIELD

Coverage:- 1.25m² @ 10mm thick.

Yield:- 12.5 litres per 25kg pack.

STORAGE & HANDLING

Fastpatch in manufacturer's sealed tubs requires no special storage facilities. 12 Months life in dry, frost free conditions in sealed tubs at 20°C. However as with all cements avoid extremes of temperature and keep dry.

HEALTH & SAFETY

Refer to separate safety data sheet. Copies available by request

PACKAGING & TRANSPORT

Supplied in 25kg plastic tubs. Not regulated for Road Transport

QUALITY ASSURANCE

Norsekem Limited Products are manufactured under quality assured schemes

Norsekem Limited products are guaranteed against defective materials and manufacture. Products are sold subject to the Norsekem Limited Terms and Conditions of Sale, copies of which are available on request. Norsekem Limited endeavors to ensure that the above data and any further advice is correct, Norsekem Limited can not accept liability for the use to which products are put or the way in which they are used. All recommendations stated by the company are made in good faith. Recommendations do not over-ride the basic obligation of the user to satisfy themselves at all times as to suitability of the product for their particular application.

EXAMPLES OF REPAIRS - The following photos are example of before and after shots of repairs using **Fastpatch** and **Fill 'n' Rub** materials along with mortar dyes in some instances.



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