

FILL 'N' RUB - Grey & White

Fine grade, colour matching fairing coat for Pre-cast, In-situ and DTp work

DESCRIPTION

FILL'n'RUB is a single component, polymer modified cementitious mortar for the filling of blow-holes and small surface defects in precast and in-situ concrete, whilst providing an aesthetic yet durable finish. The incorporation of a polymer enhances adhesion and imparts a high degree of water repellency to the surface of concrete, making it denser and more impermeable. Once cured, if required it can be overcoated with specialist membranes and anti-carbonation paints. The excellent adhesion and penetration characteristics of **FILL'n'RUB** thus impart a high degree of water repellency to the concrete surface. Available in Grey and White versions to enable colour matching with the parent concrete.

ADVANTAGES

- **USER FRIENDLY:** Materials are pre-packaged and only require mixing with clean water on site. No special primers are necessary. Part bags can be mixed.
- **COLOUR MATCHING:** Supplied in Grey and White grades which can be blended easily for perfect colour match. Coloured Pigments can be blended in as well
- **COMPATIBLE:** Physical properties of cured mortar similar to base concrete.
- **FINISHING:** Excellent finishing and feather edging characteristics.
- **POLYMER MODIFIED:** Ensures enhanced adhesion and low permeability, giving excellent protection from acid gases, moisture ingress and chlorides.
- **COMPLIANCE:** Complies with Clause 6 of the DTp Standard BD 27/86.

TECHNICAL DATA

Mixed Colour:	Grey or White
Mixed Density:	1500-2000kg/m ³
Min App Temp:	5°C
Max App Temp:	35°C
Working Life Approx:	1 hour @ 20°C
Max App Thickness:	4mm

Compressive Strength at 20°C:	GREY	WHITE
1 day	30.0 MPa	7.0 MPa
7 days	55.0 MPa	25.0 MPa
28 days	65.0 MPa	35.0 MPa
Flexural Strength:		
BS 4551 20°C and 65% R.H.	8.5 MPa	8.0 MPa
Coefficient of Thermal Expansion:		
BS EN 1770 (-20 to 40°C)	1.73x 10 ⁵ C ⁻¹	.49 x 10 ⁵ C ⁻¹



0086

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0086-CPR-602636

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

The areas to be treated must be free from all unsound material, i.e. dust, oil, grease, organic growth. The prepared surface should be thoroughly soaked with clean water until uniformly saturated without any standing water.

MIXING

FILL'n'RUB should be mechanically mixed in a clean drum using a slow speed drill & paddle with the mix ratios given. A normal concrete mixer is **NOT** suitable. Normal mixing time is approx. 2 minutes. Use without delay.

MIXED COLOUR	WATER ADDITION PER 25kg (litres)		VOLUME MIX RATIO POWDER : WATER
	RANGE (depending on desired consistency)	TYPICAL	
GREY	2.9 - 3.3	3.125	5 : 1
WHITE	5.75 - 6.25	6.0	3 : 1

PLACING

Apply by wooden or sponge faced float or "bag rubbing" techniques using a circular motion to completely fill all blow-holes and defects. As a final finishing process, before the material has fully hardened, excess material should be scraped from the surface using a steel float and any residue removed with a dry sponge.

If necessary large surface defects and voids up to 10mm must first be pre-filled with **FILL'n'RUB** mixed to a stiffer consistency. Apply by palette knife or steel float. This should be allowed to harden (minimum 24 hours) before proceeding with the main application.

For repairs deeper than 10mm please use **FASTPATCH** or **FASTPLUG** first as the filling material and leave shallow, once stable, normally 30 minutes, over coating with **FILL'n'RUB** is possible.

CURING

FILL'n'RUB used in small repairs does not normally require curing. However, for large repairs or its use in hot climatic conditions, normal concrete curing techniques are recommended, i.e. damp hessian, white polythene sheet or a suitable Curing Membrane.

CLEANING

All tools should be cleaned with water immediately after use. Hardened material will require mechanical removal.

COVERAGE & YIELD

Grey	14.0 litres per 25kg pack
White	15.9 litres per 25kg pack
Coverage	Approx. 7.5m ² @ 2mm thick

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STORAGE & HANDLING

Fill'n'Rub 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 photo is an example of before and after shot of repairs using Fill 'n' Rub material.



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