



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

## Nupatch Bedding Mortar Data Sheet

### Specification notes

Product: **Nupatch Bedding Mortar**

Supplier:

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# Nupatch Bedding Mortar

## Rapid Setting Mortar



# Nufins

### Description


A pre-packed shrinkage compensated, polymer modified cementitious bedding mortar characterised by its rapid strength gain which enables work to be carried out with the minimum of disruption. Ideally suited for the bedding and raising of manhole frames, fixing of street furniture and as a general purpose rapid setting repair mortar. Nupatch Bedding Mortar has been designed to comply with the requirements of EN1504 Part 3 Class R4.

### Advantages

- Rapid setting characteristics.
- Low water/cement ratio.
- Shrinkage compensated.
- Excellent adhesion to dense concrete and steel.
- Simple to use, only requires the addition of clean water.
- Excellent workability and finishing properties.
- May be used down to 0°C.
- Resistant to freeze/thaw cycle.
- Free from chloride additives.
- Low chromate (Cr (VI) <2ppm).
- Manufactured under BSI QA Scheme, ISO 9001, EN29001.
- Complies with the requirements of HD27/04, Chapter 3 part 11.

### Applications

- Bedding and raising of manhole frames.
- Fixing of street furniture.
- Rapid setting of posts, railings, lamp standards, etc.
- High strength repair mortar
- Bedding for copings.

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Nufins, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear. NE38 8QA 13 0086-CPD-594215	
EN 1504-3 Concrete repair product for structural repair CC Mortar (based on hydraulic cement)	
Compressive strength	Class R4 (>45 MPa)
Chloride ion content	≤0.05 %
Adhesive bond strength	>2.0 MPa
Adhesion after freeze/thaw (50 cycles with salt)	>2.0 MPa
Elastic modulus	>20 GPa
Reaction to fire	Class A1
Dangerous substances	Complies with 5.4

### Technical Information

Temp	Usable life	Compressive Strength, MPa				
		1 Hour	2 Hour	4 Hour	1 Day	7 Day
20°C	12 Mins	8	30	40	50	65

Tested in accordance with EN12190.

Water Addition	2.2-2.85 Litres per 25kg pack
W/C Ratio	0.36 @ 2.85 Litres per 25kg pack
Density	2350 kg/m <sup>3</sup>
Yield	Approx. 12 Litres per 25kg pack
Maximum Aggregate Size	4mm
Cement Content	>600 kg/m <sup>3</sup>

## Technical properties of Nupatch Bedding Mortar.

Properties	Standard	Performance Requirement	Declared Value
Appearance			Grey Powder
Mixing water			2.2-2.85 Litres per 25kg
Chloride-ion content	EN1015-17	≤ 0.05%	≤ 0.05%
Maximum aggregate size			4mm
Water/cement ratio			0.36 @ 2.85 Litres per 25kg
Cement content			>600kg/m <sup>3</sup>
Layer minimum thickness			10mm
Density			Approx. 2350 kg/m <sup>3</sup>
Working time			10-15 Minutes
Temperature for application			3°C to 35°C
Compressive Strength @ 2.5 Litres per Pack	EN 12190	≥ 45 MPa	8 MPa @ 1 Hour 30 MPa @ 2 Hour 40 MPa @ 4 Hour 50 MPa @ 24 Hour 65 MPa @ 7 Day
Tensile Strength	EN12390-6		>3.0 MPa
Flexural Strength	BS6319-3		10 MPa
Modulus of Elasticity, In Flexure	BS6319-3		>20 GPa
Modulus of Elasticity, In Compression	EN13412	≥ 20 GPa	> 20 GPa
Adhesion - Concrete	EN1542	≥ 2.0 MPa	> 2.0 MPa
Adhesion after freeze/thaw (50 cycles with salt)	EN13687-1	≥ 2.0 MPa	> 2.0 MPa
Adhesion after thunder shower (30 cycles)	EN13687-2	≥ 2.0 MPa	> 2.0 MPa
Adhesion after dry cycling (30 cycles)	EN13687-4	≥ 2.0 MPa	> 2.0 MPa
Skid Resistance	EN13036-4		Class 1
Carbonation resistance	EN13295	$d_k \leq \text{ref. concrete}$	$d_k \leq \text{ref. concrete}$
Capillary absorption	EN13057	$\leq 0.5 \text{ kg/m}^2/\text{Hr}^{0.5}$	$\leq 0.5 \text{ kg/m}^2/\text{Hr}^{0.5}$
Cracking tendency	Coutinho Ring Test		No cracking after 180 days

Technical data shown are statistical results and do not correspond to guaranteed minima.

Tolerances are those described in appropriate performance standards.

1 N/mm<sup>2</sup> = 1 MPa

1 kN/mm<sup>2</sup> = 1 GPa



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### Surface Preparation

The substrate must be clean and sound, hence all grease, oil, dust and laitance must be removed by scarifying. The edges of the repair must be recessed at least 10mm. Thoroughly moisten surface but ensure no free water remains.

### Mixing & Placement

Nupatch Bedding Mortar should be mixed using a forced action mixer. The mixing drum should be pre-wetted and any remaining water drained away. Add the water to the mixing drum and gradually add all of the powder component whilst the drum is turning. Continue mixing for two minutes to produce a hydrated and cohesive mortar which is ready for immediate use.

Place the mixed mortar to the desired thickness, allowing for compaction and bed the component. Minimum bed thickness 10mm. Finish as required and clean all equipment immediately with water.

### Packaging

Nupatch Bedding Mortar is available in 25kg units. (Yield approximately 12 Litres).

### Storage

Nupatch Bedding Mortar should be stored in cool, dry conditions and protected from damp.

### Health & Safety

Nupatch Bedding Mortar does not present any undue hazard and is non-toxic. However, as it is alkaline, gloves should be worn and any material should be washed from the skin and eyes before it dries with clean water.

The normal standards of hygiene should be observed and the use of a barrier cream is advisable.

### Limitations

The minimum application thickness should be 10mm. Minimum application temperature is 3°C. For low temperature applications ensure the substrate has not frozen. Please contact Nufins technical department for advice.

### Technical Support

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



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