

HI SPEC PAVING BEDDING MORTAR

High Strength Cementitious Hydraulic-Bonding Bedding Mortar

Description

Hi Spec Paving Bedding Mortar is used for bedding of concrete, stone and granite elements. The system is suitable for use on pedestrian or vehicular trafficked areas and complies with Highways Specification for Highway Works Clause 2601 in full and BS7533.

Hi Spec Paving is based on non-reactive aggregate, low alkaline, shrinkage compensated Portland Cements with selected admixtures. It has controlled expansion and is non-shrink. The material has good adhesive quality even on non-porous surfaces, such as granite, the material facilitates the bedding of setts with minimal disturbance to surrounding blocks.

Advantages

- Single pack system.
- Excellent adhesion to a variety of materials.
- Good resistance to freeze/thaw cycle.
- Non-shrink.
- Suitable for pedestrian and carriageway use.
- Easy mixing and application.
- Complies with requirements of BS7533 Parts 7 and 12.

Surface Preparation

All substrates should be sound, stable, clean and free from laitence, oil and grease. Preferably, new concrete slabs should be at least 28 days old, shrinkage is more likely to occur in younger concrete. The use of spray applied curing membranes to concrete slabs should be avoided. If a spray applied curing system has been used, forming a film coating, this should be mechanically removed.

Technical Information

Flexural Strength BS6319 Pt 3	5.6 N/mm ²
Tensile Strength BS6319 Pt7	3.1 N/mm ²
Slant Shear Bond Strength BS6319 Pt 4	Approx. 4.5 N/mm ²
Compressive Strength BS 1881 Pt 116	
1 day	40 N/mm ²
7 days	45 N/mm ²
28 days	55 N/mm ²
Shrinkage (Coutinho Ring Test)	Specimen did not crack
Yield per 25 Kg Pack	13.0 Litres Approx.
Freeze/Thaw Resistance	Good to Excellent
Resistance to de-icing salts	Good to Excellent
Heat Resistance	Tolerates steam cleaning
Application Temperature Range	5°C - 35°C
Cure Before Stress	24 hours
Vehicular Trafficking Times (for guidance only)	
Summer >15°C	1-2 days
Winter >5°C	3-5 days
Minimum/Maximum Bedding Thickness	20-75mm (detailed by specification)

Priming

Thoroughly wet down concrete substrates and remove excess water prior to placement of mortar or primer. Priming substrate with Hi Spec Paving Slurry (coverage 15-20 M² per pack) or Nucem Emulsion Primer (coverage 3-5 M² per litre) will increase bond strength. Prime Asphalt substrates with Nucem Primer. Prime underside of paving elements with Hi Spec Paving Slurry or Nucem Emulsion Primer.

Mixing

It is recommended that a Cretangle or other forced action mixer is used for mixing Hi Spec Paving Bedding Mortar to ensure that material is thoroughly mixed and fully hydrated. Wet out and discard water from the mixing drum prior to use or when the drum is dry. Pour the appropriate amount of clean water into the rotating drum and gradually add the entire powder contents of the pack, mix for 1-3 minutes.

Use approximately 1.7-2.0 litres of clean water per bag (for site modifications contact our Technical Department).

Application Instructions

Place mixed mortar onto the prepared substrate, then spread evenly and level to the desired depth with a steel or plastic float. Allow depth tolerance for compaction by setts ensuring that the material is laid without voids. Excessive compaction by float is not necessary. Do not allow mixed mortar to stand longer than 45 minutes before placing onto the substrate. Primed pavers and setts should be placed whilst the mortar bed remains wet.

Packaging

Hi Spec Paving Bedding Mortar is available in 25 kg bags (yield 13 litres approximately).

Nucem Emulsion Primer is available in 5 and 25 litre units (3-5 M² cover per litre).

Storage

Material must be stored unopened in dry, frost free conditions.

Health & Safety

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

Limitations

Do not allow the primer on pavers or setts to dry before placing. If the surface of the bedding mortar is allowed to dry too long before placing setts, rather than applying water, the surface should be reworked, which will ensure that a good bond is achieved. Insufficient or excessive water additions will reduce strengths. Protect newly laid areas from frost. Contact Nufins Technical Department for application below 5°C.

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.



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