

## HI SPEC PAVING

### High Strength Cementitious Hydraulic-Bonding Jointing Mortar

#### Description

Hi Spec Paving is typically used for filling joints between 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 an excellent adhesive quality even on non-porous surfaces, such as granite.

#### 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. Ensure joint sides are free of contamination.

#### Technical Information

Flexural Strength BS1881 Pt 118 1988	10.1 N/mm <sup>2</sup>
Tensile Splitting Strength BS1881 Pt 117 1988	4.95 N/mm <sup>2</sup>
Bond Strength BS1881 Pt 207 Clause 8 1992	>3.1 N/mm <sup>2</sup> (base failed before bond)
Compressive Strength BS 1881 Pt 116	
1 day	30 N/mm <sup>2</sup>
7 days	>51 N/mm <sup>2</sup>
28 days	>60 N/mm <sup>2</sup>
Modulus of Elasticity	18000 N/mm <sup>2</sup> BS6319 Pt 3
Shrinkage (Coutinho Ring Test)	Specimen did not crack
Yield per 25 Kg Pack	13.0 Litres
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 Joint Width	6mm (detailed by specification)

## **Priming**

It is not necessary to prime the sides of elements, however, porous elements should be dampened with clean water immediately prior to joint filling. Ensure side of elements are free from contamination.

## **Mixing**

It is recommended that a Cretangle or other forced action mixer is used for mixing Hi Spec Paving 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.  
Standard and Charcoal: 4.0-4.5 litres water  
Sandstone: 3.0-3.5 litres water

## **Application Instructions**

Following placement of pavers or setts, mortar should be applied into joints the next day or at the earliest opportunity, this will limit the risk of dirt contaminating the joint. Wet out top of stones with clean water before filling joints. Decant the mixed mortar from the mixing vessel into a pail and allow de-airing for a few minutes. Using a suitable watering can or other type of applicator using an appropriate nozzle, pour directly into joints. For flow-application, using a squeegee to move material into joints, care must be taken to remove mortar from surfaces as soon as possible before hardening. Prior treatment of sett and paver surfaces with Disbond sealer will assist cleaning. Alternatively, a mechanical belt-cleaner will assist cleaning. Ensure that the mortar fills the joint to its full depth. After use clean tools and equipment immediately with clean water.

## **Packaging**

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

## **Storage**

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

## **Health & Safety**

Hi Spec Paving 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**

Excessive water additions will reduce strengths and cause segregation, as well as affecting flow and colour. 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.



Kingston House, 3 Walton Road, Pattinson North, Washington, Tyne & Wear, NE38 8QA, United Kingdom.

TEL: +44 (0) 191 416 8360 FAX: +44 (0) 191 415 5966 W: [www.nufins.com](http://www.nufins.com) E: [info@usluk.com](mailto:info@usluk.com)

The information and/or specifications contained herein or in our literature or given by Nufins, its employees, distributors, agents or representatives with regard to its product or their use or application are given in good faith, but no liability is accepted for any loss or damage (including direct or consequential loss or loss of profits) from the use of products because Nufins has no control over how its products are used and applied.