

HSBC High Strength Bedding Concrete

Description

HSBC is a natural grey, high strength bedding concrete that provides a bound base for natural stone and concrete paving units. The product complies to the requirements of BS 7533 and should be used in accordance with this standard and manufacturer's instructions.

Applications

HSBC is suitable for use at depths of 10-75mm, in the following applications,

- Bedding layer for concrete paving flags, concrete paving bricks and natural stone flags, bricks and setts.
- Haunching and bedding of drainage channels.
- Pointing and haunching of kerbs and kerb setts.

Product Use

Ensure the supporting base is stable, sound and free from any dust, dirt or grease. The supporting base should then be pre-soaked and have all ponded water removed prior to application

Preparation: Before using KPRO HSBC, the preparation of the concrete base is of critical importance. Ensure that the surface is stable and not liable to settlement or heave. Remove all dust, grease and debris. Place the product on a pre-soaked and then freshly primed base. Spread the HSBC around the area to the desired depth.

Mixing: This product only requires the addition of clean water. Our HSBC should be mixed in a suitable site mixer or with a paddle drill. The dry mix should be added gradually to the measured water in the mixing vessel and mixed for 3-5 minutes. Typical water addition of 2 - 2.5 litres per 25kg of dry material will produce a stiff, moist binding material. Material mixed from our bulk silos should be done so in accordance with the site training given by our technical team.

Placing: HSBC can be laid in depths of 10-75mm in one layer. Greater depths can be achieved using the layer on layer method. Place the product on the pre-soaked and freshly primed base and spread to the desired depth. Ensure to use the material while it is still moist and fresh. Prime the back of the paving unit and immediately place it in position, using a rubber mallet to bed and level. The substrate must not be frozen. The product will take longer to gain strength during colder conditions.

Technical Data

KPRO HSBC is produced in an ISO 9001 quality-controlled environment to the requirements of BS 7533.

Characteristic	Data value
Compressive Strength (28 days)	43 N/mm ²
Flexural Strength (28 days)	>4.5 N/mm ²
Density	1900 kg/m ³
Adhesion Strength	> 1.4 N/mm ²
Adhesion Strength (with priming slurry)	> 2.0 N/mm ²
Modulus of Elasticity	16,000
Shrinkage	<0.1%



Benefits

- Consistently high-quality mix
- Eliminates inaccurate site mixing
- Complies with BS 7533
- Long term durability
- Convenient and User-Friendly
- Eliminates wastage
- Promotes cleaner and safer sites

Approximate Yield

Coat Thickness	kgs of material req.	No. 25kg bags per m ²
10	19	1
20	38	2
30	57	3
40	76	4
50	95	4
60	114	5
70	133	6
75	143	6

Application Temperatures



+2°C on a rising thermometer

Do not use below 3°C on a falling thermometer scale.

The product must be protected from frost.

+25°C Maximum Temperature

Health & Safety

Please refer to the relevant Material Safety data sheet online at www.kilsaran.ie.

Pack Size

- 25kg premixed bags
- Bulk silos
- Large plastic lined bulk bags

Get in touch



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