

Streetscape[®] High-Strength Bedding Concrete

A superior quality polymer modified High-Strength Bedding Concrete, manufactured under an ISO 9001 quality controlled environment; using dried sands, lime, cement and additives specially designed to meet or exceed the requirements of BS 7533 part 7 & 12. The product is used for bedding natural stone flags, cobbles and setts, clay and concrete pavers in a rigid construction.

- Complies with BS 7533 part 7 & 12
- Shrinkage compensated
- Consistently high quality
- High early strengths
- Available in 25kg bags and site silos
- Eliminates waste and cleaner, safer sites
- Also available in eco range

Working Instructions

High-Strength Bedding Concrete should be used in suitable bonded rigid constructions. The product should not be used in temperatures below 3° C in a falling temperature or below 1° C on a rising thermometer. The surface of the substrate should not be frozen or >30° C before bedding commences. Movement joints will be required in rigid/bonded constructions and should be designed and marked by the design team.

Substrate

The substrate, including sub-base and road base should meet the requirements of the relevant part of BS7533 depending on type of use.

Preparation

All substrates must be suitable to receive the laying course as per current good working practices. All substrates for bonded constructions should be clean and thoroughly sound, free from oils, grease, dust, loose particles or any other contaminants which may interfere with adhesion.

Mixing

The product is mixed to the desired consistency either from a site silo and continuous mixer or in a suitable site mixer if 25kg bags are used. Add 8 - 10% water, i.e. 2.3 - 2.5L of water per 25kg bag to achieve the desired semi-dry workability. Do not rewet previously mixed batches.



Priming

To achieve a bond strength as described in BS 7533, the substrate must be primed using Priming Slurry prior to placing High-Strength Bedding Concrete. All paving units must be primed with Priming Slurry promptly prior to placing into High-Strength Bedding Concrete.

Application

High-Strength Bedding Concrete can be applied in a bed of 10 - 75mm in a single pass. Greater thicknesses can be applied but should be laid wet on wet with each layer being sufficiently compacted prior to laying another pass. When applying another layer to a layer which has cured, it should first be primed with Priming Slurry. Bedded areas should be protected from foot traffic for a minimum of 12 hours and from vehicle traffic for a minimum of 24 hours dependent on temperature and site conditions.

Approx. Product Yield		
Bedding Depth	Kgs per m ²	25kg bag 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

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Storage

Bulk bags and packed products must be stored clear of the ground in cool, dry conditions and protected from wind, rain and external physical damage. Packed products must be stored in original unopened bags.

Disposal Considerations

Wearing appropriate personal protective equipment, place spilled wet product in a suitable container. The product will set as a hard material.

Safety

Classification according to Regulation (EC) No 1272/2008. Hazard pictograms: **GHS05** corrosion. Hazard-determining components of labelling: Portland Cement, Calcium Aluminate Cement, Limestone aggregates and chemical Additives. All standard precautions for the handling of construction materials/chemicals must be taken. See Kilsaran Health and Safety Data Sheet for further detailed information.

Hazard Statements

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.

Precautionary Statements

P102: Do not handle until all safety precautions have been read and understood
P260: Do not breathe dust/fume/gas/mist/vapours/spray
P305+P361+P338: If in eyes: rinse cautiously with water for several minutes
P302+P352: If on skin: wash with plenty of soap and water
P302+P350: If on skin: Gently wash with plenty of soap and water
P280: Wear protective gloves/protective clothing/eye protection/face protection
2.2 Dry Product:
R37/38: Irritating to Respiratory System and Skin
R 41 : Risk of Serious Damage to eyes.
2.3 Wet Product:
R 41 : Risk of serious damage to eyes
R 43 : May cause sensitization to eyes

Technical Information

Streetscape®: High-Strength Bedding Concrete	
Compressive Strength 28 days (BS EN 1015-11)	43 N/mm ²
Adhesion Strength (with Priming Slurry) (BS EN 1015-12)	> 2.0 N/mm ²
Modulus Of Elasticity (DIN 18555-6)	16,000 N/mm ²
Shrinkage (BS EN 445)	< 0.1%
Density	1900 kg/m ³
Flexural Strength (BS EN 1015-11)	8.4 N/mm ²
Maximum Thickness	75mm (applied in a single pass)
Minimum Thickness	10mm
Use (External Use)	Yes
Use (Internal Use)	Yes
Yield	Approx 2.1 - 2.2kg/mm/m ² (1 bag = approximately 0.25m ²)
Recommend water content	8 - 10%
Pot life	Maximum 60 minutes depending on ambient conditions
Hardening Time (before foot traffic)	12 hours
Hardening Time (before vehicle traffic)	24 hours (depending on site conditions)

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