

# Heidelberg Materials Instant Concrete

Technical data sheet

**Heidelberg Materials Instant Concrete is prepared by blending Heidelberg Materials Cement CEM I 52.5N (to BS EN 197), with Regen GGBS (to BS EN 15167) and aggregates (conforming to BS EN 12620).**

Heidelberg Materials Instant Concrete meets the requirements of BS5838-1:1980 and is factory produced to ensure the highest quality concrete.

## Application

Heidelberg Materials Instant Concrete can be used for shed bases, slab bases, patio bases, and general repairs.

- Easy to use - just add water
- Saves time - quick and convenient
- Quality - guaranteed product quality

## Coverage

Recommended minimum thickness for slab and path bases suitable for foot traffic is 50mm. For heavier duty applications e.g. shed bases 75mm is the recommended minimum thickness.

When mixed with water a MaxiPack20 will produce approximately 0.009m<sup>3</sup> of concrete and cover:

- 0.12m<sup>2</sup> @ 75mm thick
- 0.16m<sup>2</sup> @ 50mm thick

## Compressive strength

Approximately 15 Nmm<sup>2</sup> @ 28 days.

## Addition of other materials

Heidelberg Materials Instant Concrete is a pre-packed concrete. The addition of admixtures is not necessary and could adversely affect the performance of the finished product.

## Hexavalent Chromium (vi)

The soluble chromium (VI) content is limited to a maximum of 2ppm. The chromium (VI) content is determined in accordance with EN 196-10. The maximum shelf life is stated on the bag.

## Instructions for use

All surfaces to be worked should be free from oil, grease and any loose material. The area where concrete is to be placed should be prepared to prevent loss of moisture from the wet concrete.

For best results, mix thoroughly using a mechanical mixer, empty the bag of Heidelberg Materials Instant Concrete into the mixer and blend until uniform. Slowly add clean water until the desired consistency or slump characteristics are achieved.

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### Instructions for use (continued)

Alternatively, empty the bag of Heidelberg Materials Instant Concrete onto a clean, flat moisture resistant surface, such as a mortar tray. Slowly add clean water until the desired consistency or slump characteristics are achieved, by thoroughly mixing with the aid of a shovel or similar.

Alternatively for bases up to 50mm thick the following procedure can be used:

- Place Heidelberg Materials Instant Concrete direct from the bag into the work area, working from one end to the other. Continuous areas should be limited to no more than 2m<sup>2</sup> to avoid possible cracking as a result of movement. Even out with a straight edge to create a level surface.
- Use a watering can with a fine rose to apply a small amount of water lightly and evenly to the Heidelberg Materials Instant Concrete (without pooling) until the surface starts to turn a uniform dark colour. Do not add more than 3 litres of water per square meter. Too much water will weaken the mix.
- Using either the edge of a plank or a plasterers float tamp the dampened surface lightly, stopping 300mm short of any un-dampened surface to avoid disturbing the remaining material. Increase the pressure on the float or timber plank to compact the surface. A smooth flat surface can be achieved by finishing with a plastering float.
- After 2 hours sprinkle with approximately 3 litres of water per square metre (avoid direct water pressure on the surface). Further water should be added after 12 hours in internal situations or very dry conditions where quick drying takes place.
- For best results, protect newly laid concrete from the weather until fully hardened. Concrete strengths are improved by keeping the concrete damp during hardening.
- Application temperature: +5°C to +35°C.

### Packaging and storage

- This product must be stored in unopened bags clear of the ground in cool dry conditions and protected from excessive draught.
- If stored correctly, as detailed above, the chromium (VI) in this product will be within required levels for up to 12 months from the date shown on the bag.
- Use of this product after the declared storage period, as detailed above, may increase the risk of an allergic reaction following direct contact with skin.
- Concrete MaxiPack20 comes in an easy to handle, fully waterproof all weather bag.

### Technical support and further information

Please refer to the Material Safety Data Sheet for full health and safety information

For further advice please contact Heidelberg Materials cement technical support on **0330 123 4525** or **[cement@uk.heidelbergmaterials.com](mailto:cement@uk.heidelbergmaterials.com)**

**Further copies of this technical data sheet may be obtained from [heidelbergmaterials.co.uk](http://heidelbergmaterials.co.uk)**