

POWER CRETE

Permanently repair deep depressions, holes and cracks in under an hour



Power Crete is the ultimate concrete repair for deep cracks, holes and depressions and it won't weaken surfaces or structures.

What is Power Crete?

Power Crete is the ultimate concrete repair for deep cracks, holes and depressions and it won't weaken surfaces or structures. Repair roads, runways, bridges and more. Due to its no-shrink, no-slump formulation Power Crete can even be used on horizontal surfaces. Power Crete is ideal for use on repairs of more than 10mm depth.

How does Power Crete work?

Power Crete is a two component product, supplied as a pre-mixed, Portland cement based, powder and a co-polymer gauging liquid. Once applied, Power Crete will set in under an hour allowing for optimum productivity and minimised disruptions.

Key Features and Benefits of Power Crete?

Easy to use formulation – no mess, no fuss.

Convenient and economical – supplied in 25kg tubs and can be mixed in the tub it comes in.

Ultra rapid curing repair – repair area usable in under an hour.

Rapid strength gain - repair is permanent and hardwearing.

Use on vertical and overhead surfaces – no need for shuttering.

Power Crete won't shrink or slump.

Use for spalling and damage to concrete or granolithic surfaces of floors.

Will take colouring agents and can be feather edged.

Can be used in small amounts.

Non-toxic – can be used in confined spaces.

Chloride free so can be safely used when in coming into contact with reinforcing steel.

Resistant to oil, grease and freezing and thawing cycles.

Instructions for Use

Do not add excessive water for mixing. Variations in water content for particular applications may alter mortar consistency and compressive strength achieved.

Preparation

Laitance and all loose material including dust, oil and grease should be removed in order to produce a sound substrate. The work area should be pre-wetted taking care to remove any standing water before placing the mortar. The repair area should be primed with a small portion of the gauging liquid.

Mixing

For mixing small quantities of mixed material, pour a portion of the gauging liquid into a suitable mixing vessel and slowly add the powder whilst continuously mixing, using a suitable hand tool. Adjust the final consistency with a small quantity of water and continue mixing until mortar is of even colour and consistency throughout.

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For full pack mixing use all remaining gauging liquid and slowly add the powder, whilst mixing. A small quantity of water may be added to adjust the mortar workability. Mix using either a slow speed drill with a Mortar Stirrer. Continue mixing until the mortar produced is of an even colour.

Placing

Apply the mixed material by trowel or gloved hand firmly to the repair area, ensuring full contact. Build up to the required thickness. Float or smooth off the repaired surface.

Curing

No special curing is required at temperatures between 5 and 35°C

During Placing

The substrate must be clean and surface dry.

Protect freshly laid material from strong direct sunlight, rain, frost or snow.

Clean all mixing equipment and tools before setting commences.

Technical Information

Power Crete has been tested in accordance with appropriate parts of EN 12390.

Health and Safety

Please ensure that you have read the SDS for Power Crete in its entirety and wear the appropriate PPE when preparing, mixing and applying Power Crete.

Working time

Approx. 20 minutes @ 20°C

Application range

10 – 100 mm, layers can be used to create deeper repairs

Application temperature range

+5°C to 35°C

Time to foot traffic

1 hour, with compressive strength of 10N/mm²

Time to vehicle traffic

4 hours, with compressive strength of 20N/mm²

Mechanical strength profile (+20°C / 90% RH)

Age	1 hour	4 hours	28 days
Compressive	10 N/mm ²	20 N/mm ²	50 N/mm ²

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