

# PatchCrete 101

## Multi-Use Repair Mortar



**DESCRIPTION** • *PatchCrete 101* is a single component, cement based, fiber reinforced, polymer modified, multi-purpose patching and repair mortar for correcting errors on new construction projects and maintenance, repair and renovation of old construction. *PatchCrete 101* may be applied in thicknesses varying from featheredge to 10 cm and may be used on vertical as well as horizontal surface. *PatchCrete 101* is available in fine, medium, and coarse grades.

**USES** • *PatchCrete 101* may be used for vertical, horizontal and overhead patching and repair of holes and cavities in concrete surfaces. May also be used to repair and patch honeycomb concrete, form marks on precast members, and general structural repairs. Suitable for interior and exterior applications such as sidewalks, walls, floors, curbs and gutters. May also be used as a fine finish, quick turnaround underlayment. *PatchCrete 101* has a light grey color that allows it to blend-in with the surrounding concrete surface. Once fully cured, *PatchCrete 101* is water-insensitive.

### ADVANTAGES

- ✓ Single component and easy to use.
- ✓ May be featheredged.
- ✓ Provides a smooth surface finish.
- ✓ Excellent adhesion to most surfaces.
- ✓ Suitable for horizontal and vertical application on interior and exterior surfaces.
- ✓ No shrinkage.
- ✓ Rapid strength attainment.
- ✓ Long working time – up to 40 minutes.

**LIMITATIONS** • Do not use if substrate temperature is below 7°C or if rain or freezing conditions are expected in the proceeding 24 hours after application. Do not overwater; excessive amounts of water will weaken the material and reduce its durability.

### PHYSICAL PROPERTIES

Density	1800 ± 10 kg/m <sup>3</sup>
Pot Life	60 mins at 20°C 35 mins at 30°C
Compressive Strength (BS EN-196)	
3 Days	31.6 N/mm <sup>2</sup>
7 Days	38.2 N/mm <sup>2</sup>
28 Days	47.3 N/mm <sup>2</sup>
Flexural Strength (BS EN-196)	
3 Days	5.74 N/mm <sup>2</sup>
7 Days	6.39 N/mm <sup>2</sup>
28 Days	7.55 N/mm <sup>2</sup>

Minimum surface Temp.	7°C
Maximum Service Temp.	60°C

**COVERAGE** • Coverage rate is dependent on the width and depth of the area to be patched. Generally, a 35 kg bag will produce approximately 0.02 cubic meter of grouting concrete when mixed with water. Dominant coverage rate is approximately 1.75 kg/sq m/mm of thickness.

**SURFACE PREPARATION** • All surfaces must be structurally sound, clean, and free from any loose particles, dust, oil and other contaminants. All unsound concrete must be chipped away and any dust should be removed with a vacuum. The pores of the concrete surface must be open to permit proper bonding; use sandblasting, acid etching or scarifying to prepare the surface. Insure that the surface is neutralized and washed thoroughly if the surface is acid etched. For high buildup applications it is recommended that the sides of the area to be repaired be kept as square as possible; saw cut edges to a minimum depth of 8 mm.

**MIXING** • Depending on the consistency desired, add a 35 kg bag to 7-10 liters of clean water. The powder should be slowly added to the water and mixed until a homogeneous, lump-free mortar is obtained. Mechanical mixing at low speeds (300-400 RPM) is recommended for best results. DO NOT OVERMIX OR OVERWATER.

**APPLICATION** • Dampen the concrete surface with water prior to application of *PatchCrete 101*. Due to its high polymer modification, *PatchCrete 101* has a high bonding strength, however for additional bonding strength the surface may be primed *A-Z PrimeBond*. Please refer to CCC's relevant data sheets for application instructions. Apply *PatchCrete 101* manually on the repair areas with a trowel, scraper or float in thicknesses ranging from 1 mm to 100 mm. Applications over 25 mm should be done over several layers; cross hatching previous layers and allowing them to set, but not dry, before applying subsequent layers. If previous layers dry, wet and prime the dried layer with *A-Z PrimeBond*, *A-Z Strong Bond*, *A-Z Hi Bond*, or *A-Z Mega Bond*.

For applications over 50 mm thick, use coarse grade *PatchCrete 101*; for application thicknesses 15-50 mm thick use medium grade *PatchCrete 101*; and for application thicknesses less than 20 mm use fine grade *PatchCrete 101*. The working time of the mix at 20°C is approximately 40 minutes. Hardened material should not be re-mixed and used, otherwise cracks will appear. Do not apply if either the ambient or substrate temperature is below 7°C or rain is

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expected in proceeding 24 hours. Always bring construction joints through the layer of *PatchCrete 101*.

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**CURING** • *PatchCrete 101* is self-curing and does not require moisture curing. On extremely hot and dry days, cover the repair area with a sheet of polythene to prevent excessive drying.

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**CLEANING** • Tools and equipment should be cleaned promptly with clean fresh water.

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**STORAGE & SHELF LIFE** • Product should be stored at 25°C in dry conditions away from direct sun light. Shelf life is approximately 12 months from date of purchase in original unopened container at specified storage temperature.

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**SAFETY PRECAUTIONS** • KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. Portland cement and silica based products present health hazards. Irritating to eyes and skin. Use in adequate ventilation and do not breath dust. May cause delayed lung injury (silicosis). Use neoprene gloves and a dust mask when handling. FIRST AID: Eyes – Do not rub eyes, immediately flush with fresh water. Skin – Wash with soap and water. Inhalation – If experience difficulty breathing or if inhaled, move to fresh air. If symptoms persist, seek medical attention.

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**PACKAGING** • 25 kg bag.

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### Creative Concrete Concepts

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