

High Build Cementitious Repair Mortar

## DESCRIPTION



TamCrete 40HB is a single component cementitious mortar which incorporates advanced cement chemistry, micro silica, polypropylene fibres and re-dispersible co-polymers. It provides a rapid hardening, low density, high strength mortar. The thixotropic nature enables easy high build trowel or spray application for the structural repair of voids and rendering of both vertical and horizontal surfaces. The product is supplied as a single component system ready for onsite mixing, only requiring the addition of clean water.

## KEY BENEFITS

- > Pre-packed, easy to use
- > Consistency achieved by quality control
- > Shrinkage compensated
- > High build non-slump (up to 60 mm per application)
- > Complies with HKHA TM1-TM8
- > High bond strength to concrete substrate
- > Contains no chloride
- > Low permeability, providing protection from ingress of acid gases, moisture and chloride
- > Waterproof render to concrete, brickwork and block work.
- > Finished surfaces could be painted or coated with non-cementitious membranes

## TECHNICAL DATA

TamCrete 40HB	
Appearance	Cement Grey
Pot Life @ 20°C	30 - 50 minutes
Initial Set @ 20°C	1 hour
Compressive Strength	
7 days	> 30 MPa
28 days	> 45 MPa
Flexural Strength	
7 days	> 8 MPa
28 days	> 12 MPa
Tensile Strength	
7 days	> 2.7 MPa
28 days	> 3.0 MPa
Pull-off Adhesion Strength	
28 days	> 2.0 MPa

All technical data stated herein is based on tests carried out under laboratory conditions.

## APPLICATION GUIDELINES

### Surface Preparation

It is essential that the surface of the concrete to be repaired is sound, clean and free of contamination. Damaged areas should be identified and clearly marked. The edges of the area should be saw cut by keeping the repaired area as square as possible. Avoid feather edging. A thickness of 10 mm at the edge of the repair must be maintained. Remove all rust from steel reinforcement bars by wire brush if necessary. TamCrete 46 priming slurry should be applied to the reinforcement or a zinc rich anti-corrosion agent may be used on the steel bars without affecting performance of TamCrete 40HB mortar.

### Priming

Primer is formed by mixing 1 part of TamCrete 46 to 1 part of cement (OPC) by volume or 2 parts of TamCrete 46 to 3 parts of cement (OPC) by weight until a deep blue cement slurry is formed. Primer could be used on both steel bars and concrete substrate.

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### Mixing

TamCrete 40HB can be mixed either by hand or mechanical mixing. Put 3 litres of water into the mixer and slowly add TamCrete 40HB powder until a smooth, well mixed mortar is formed. Maximum water content for each bag of TamCrete 40HB is 3.2 - 3.6 litres for a 20 kg bag and 4.0 - 4.5 litres for a 25 kg bag. DO NOT RE-MIX WITH WATER ONCE INITIAL SET HAS BEGUN.

### Yield

1 kg powder = 0.7 litre fresh mortar

20 kg bag of TamCrete 40HB will give about 14.0 litre of mortar.

### Repairing

TamCrete 40HB can be applied with a thickness of 60 mm at one pass on vertical surfaces and up to 50 mm when used overhead.

### Curing

After application, areas should be treated with a suitable concrete curing membrane or protected using plastic sheets or wet cure for at least 3 days.

### PACKAGING

TamCrete 40HB is supplied in 20 kg bag. Packaging size may vary subject to local regulations and requirements.

### STORAGE

TamCrete 40HB should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of six months can be expected.

### HEALTH & SAFETY

TamCrete 40HB should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.