

Cast-In-Place Mix Instructions



BASIC MOULDING

Introduction

The Concrete Lab Cast-In-Place Mix is a specially formulated high-strength concrete mix for cast-in-place concrete worktops, countertops, tabletops, bartops, hearths etc. It is suitable for both indoor and outdoor use.

It can be used to make panels 40mm and can be used for both indoor and outdoor applications.

By nature concrete is heavy so consideration must be given to the sub-structure upon which the concrete is to be cast or poured.

Mould Building Equipment/Materials Required (non-exhaustive list)

1. Plywood or cement board sheet for the base
2. Melamine and/or plywood strips for the mould edges
3. Screws, small drill bit for piloting holes (e.g.3mm) & cordless drill
4. General hand and/or power tools for cutting materials (e.g. jacksaw, circular saw)
5. Silicone gun
6. General purpose silicone sealant
7. Silicone tools
8. 2 x Paint brushes
9. Primer (available on our website)
10. Mould release agent (available on our website)
11. Cloths for mould release application
12. PPE including fine touch gloves and eye protection

Cast-In-Place Mix Instructions



BASIC MOULDING

The Basic Formwork

The basic formwork is created using a base material and strips of formwork. We recommend the following;

- 1 Base - Plywood or Cement Board (external applications)
- 2 Plywood and Melamine for edge forms

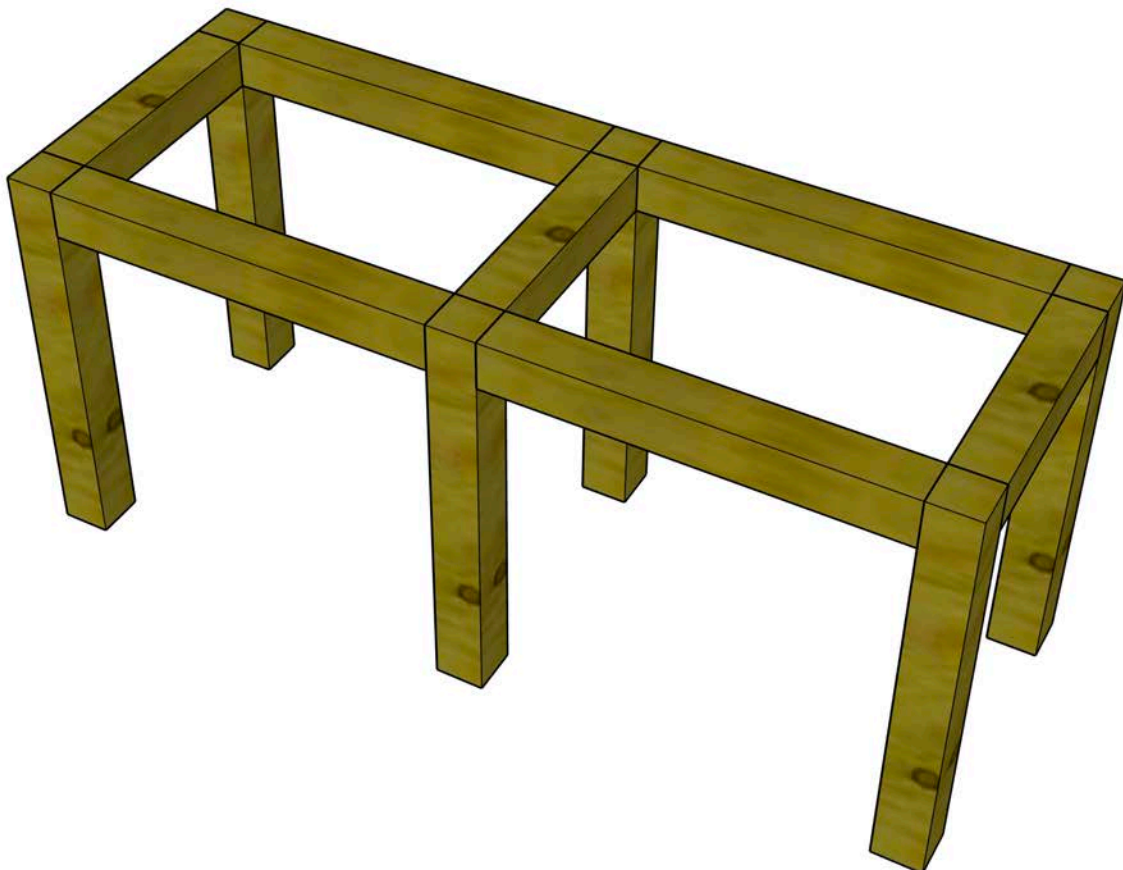
This will sit on top of whatever your substructure is. This could be kitchen cabinets, brickwork, blockwork, a timber structure or a combination. Consideration should be given to any unsupported spans between supports, because whilst concrete is strong it will require reinforcement to be suspended without support.

If you have any questions in relation to this please contact us for advice.

For the purposes of these instructions the concrete will be fully supported by a cement board base.

A Substructure

In this example, the substructure is made of 100 x 100mm timber posts and could be suitable for an outdoor kitchen worktop.



Cast-In-Place Mix Instructions

BASIC MOULDING

B Cement Board Substrate

Affix a layer of cement board on top of the substructure and overhang it by at least 20mm on the free edges (i.e. edges not against a wall).



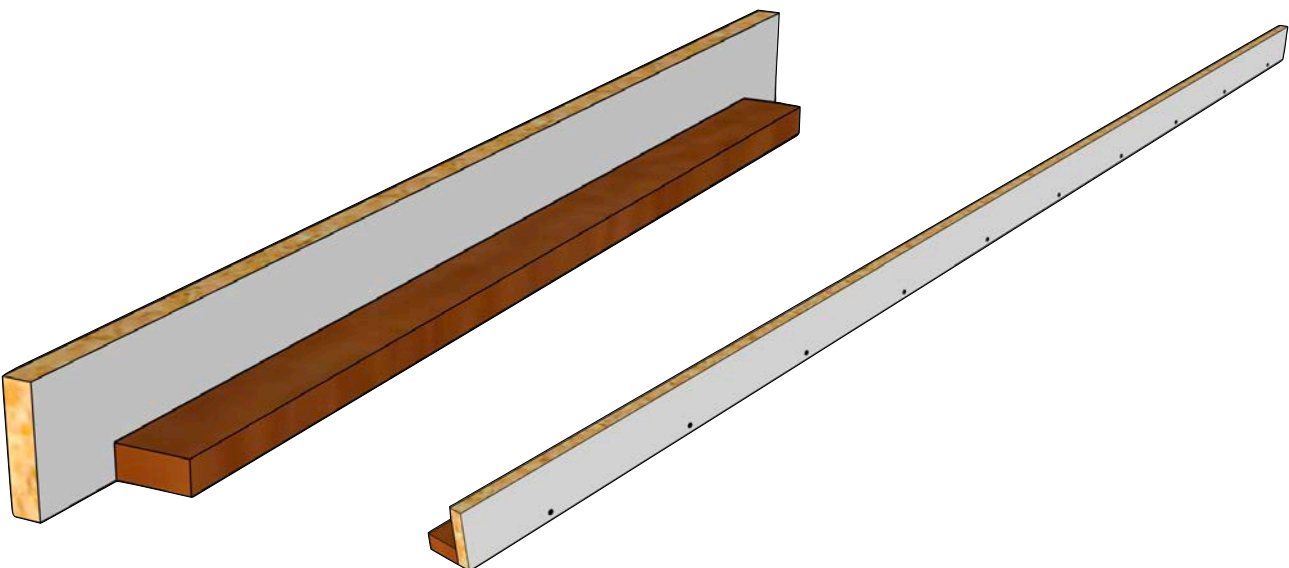
Cast-In-Place Mix Instructions

BASIC MOULDING

C Edge Forms



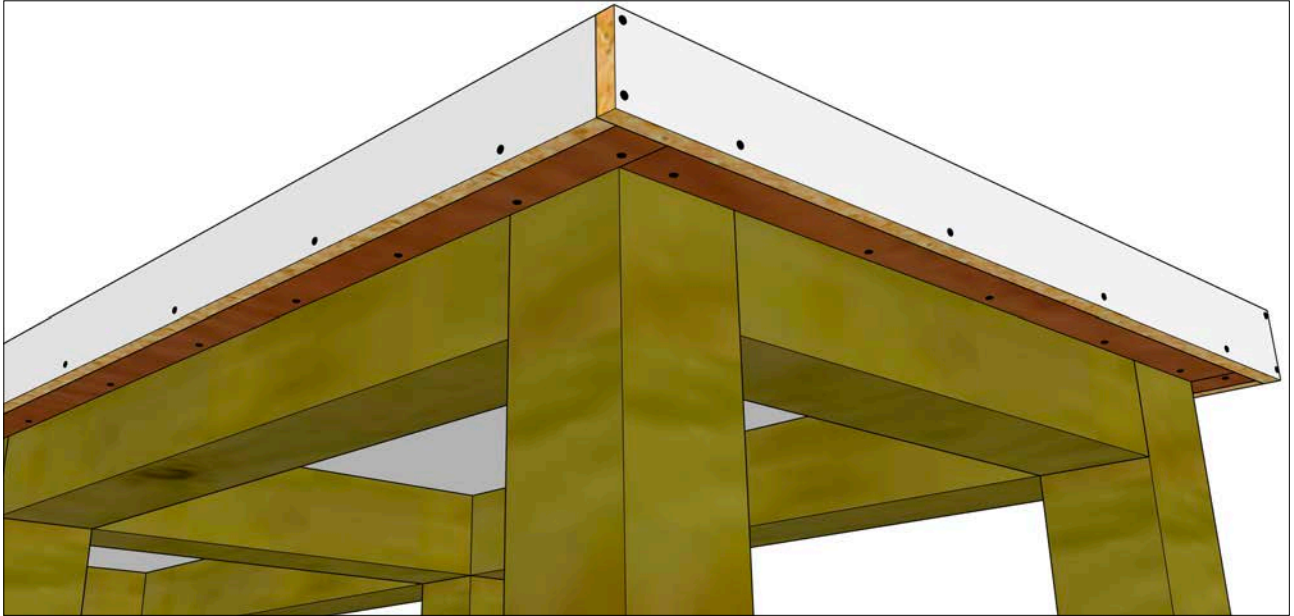
C1 Make Edge Forms - Using strips of material such as plywood and melamine make the edge forms. We recommend that the materials are screwed together and not just glued.



Cast-In-Place Mix Instructions

BASIC MOULDING

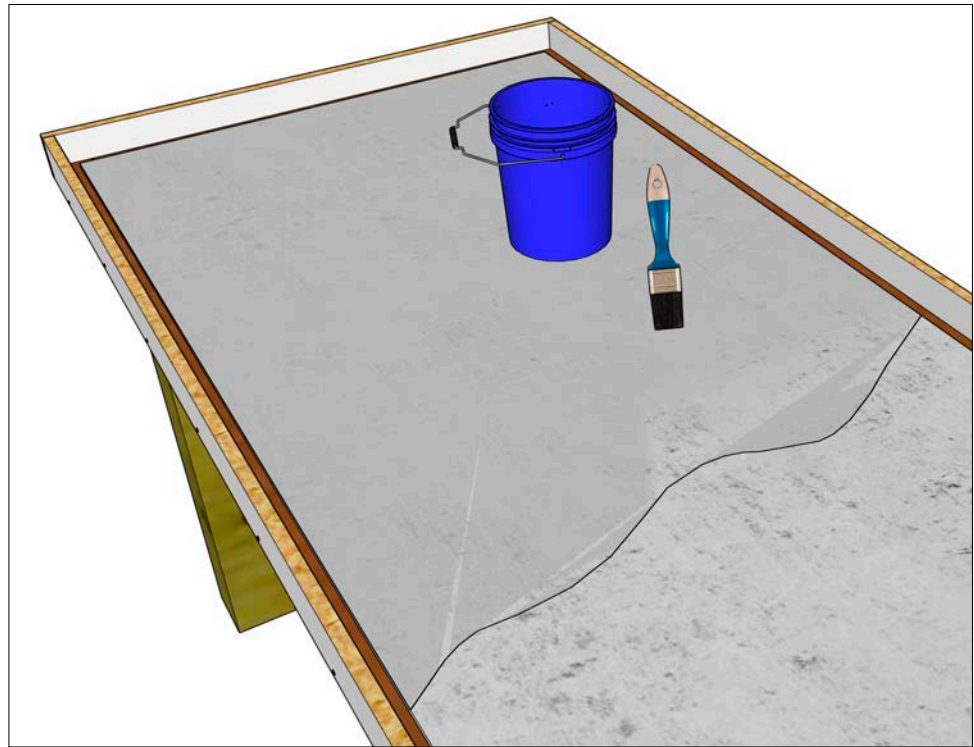
C2 Attach Edge Forms - Attached the edge forms by screwing them to the underside of the cement board substrate. Do not glue them so they can be removed later.



Cast-In-Place Mix Instructions

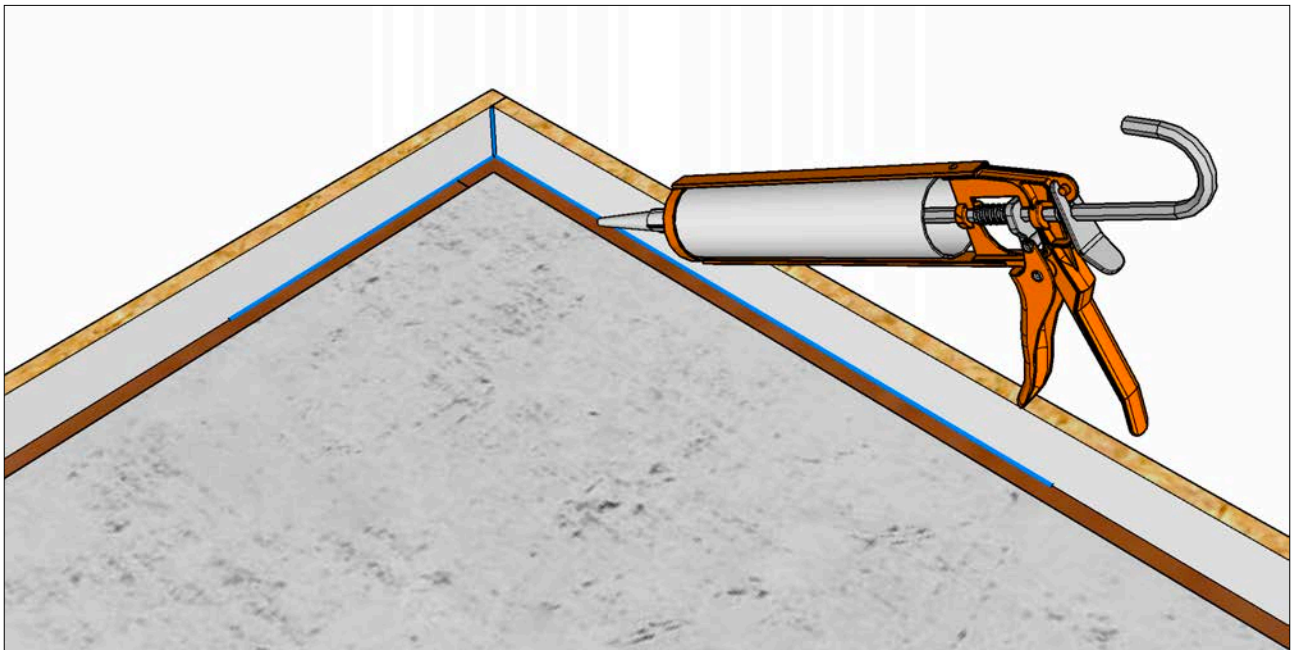
BASIC MOULDING

D Primer - apply Primer to the substrate (in this case cement board). **DO NOT** apply it to the edge forms. Allow this to become touch dry.



E - Silicone Seal Joints

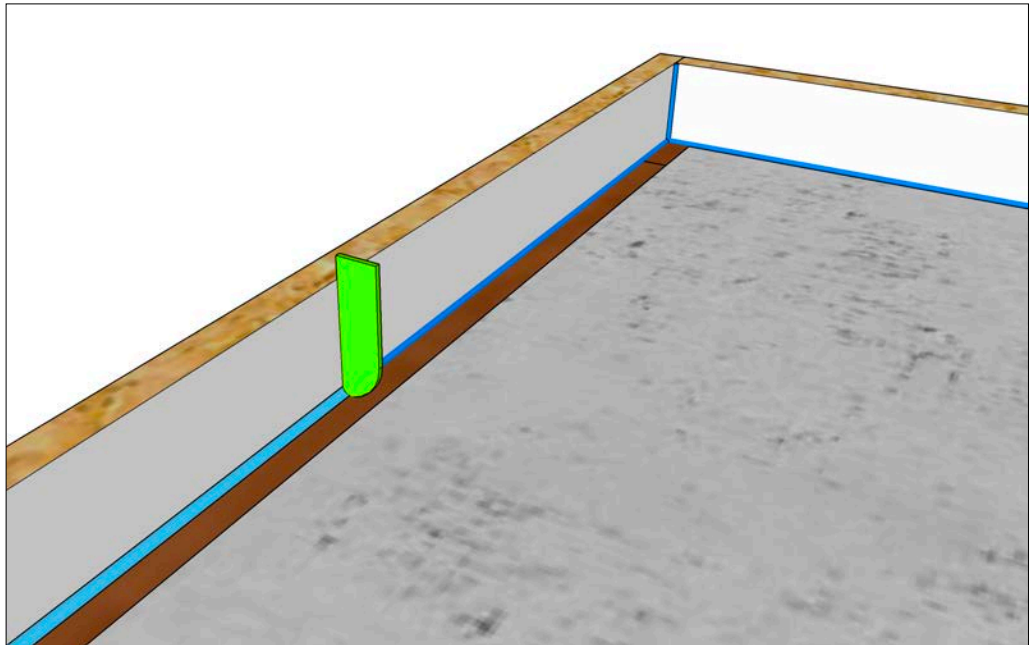
E1 Apply Silicone Sealant to the edge form joint .



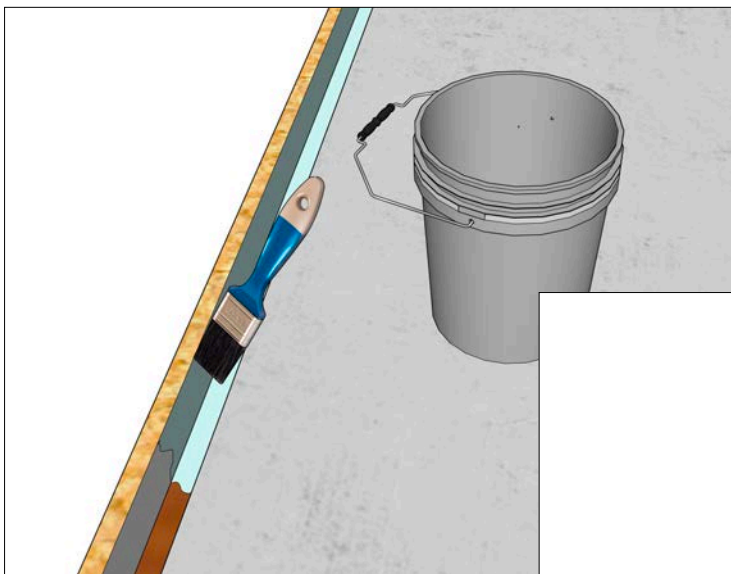
Cast-In-Place Mix Instructions

BASIC MOULDING

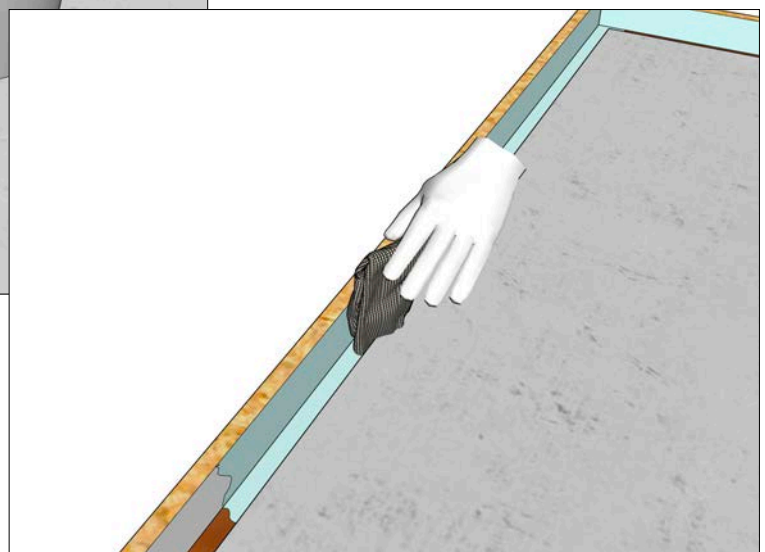
E2 - Tool Off Silicone to give a rounded finish.



F - Mould Release - apply liquid mould release to the edge forms so that they can “release easily” from the concrete once cured.



DO NOT let the mould release pool. It is recommended that once applied it is wiped out again using a rag leaving a very thin film.



You are now ready cast your concrete!