

# Cast-In-Place Mix

## Mixing Instructions



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## Equipment Required

1. Forced Action Mixer or Paddle Mixer
2. Suitably sized mixing vessel (1.5 to 2 times the mix size)
3. PPE Listed below
4. Bucket trowel or gauging trowel
5. Clean bucket to weigh out the water

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## Personal Protective Equipment

The following Personal Protective Equipment is advised during the mixing and use of the Premix Kit;

- a. Gloves or Nitrile Gauntlets
- b. Eye Protection (goggles or glasses)
- c. Disposable Overalls
- d. FFP3 Dust Mask

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## What Is In The Cast In Place Box?

You will receive the following as part of each kit;

- a. 1 bag of base mix
- b. 1 pouch of glass fibres
- c. 1 pouch of powdered dye (except for Off-White)

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The Concrete Lab Cast-In-Place Concrete comprises a fibre-reinforced back coat and a fibre-free face coat.

### **Small SINGLE bag Projects (Under 0.3sqm at 40mm)**

For "single bag" projects we recommend holding back 20% of the dry mix and putting it aside for the face coat. The remaining mix can be used as the backcoat and will be mixed up straight away as below.

#### ***Part 1 - Mixing The Back Coat (80% of a full bag or 17.3kg)***

1. Weigh out 3Kg or 3 litres of water
2. Add approximately 3/4 of the water to your mixing container
3. Empty HALF of the contents of the base mix into your mixer/mixing vessel. DO NOT ADD THE FIBRES
4. Mix until fully blended with no lumps.

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5. Use the gauging or bucket trowel to scrape out the base of the bucket or mixing vessel to lift any dry material.
6. Add the remaining water and mix until blended.
7. Mix the final half of the base mix into the bucket. Blend until the mix is smooth. This may take a few minutes.
8. Leave the mix to rest for 10 minutes.
9. Blend the mix once more for 30 seconds.
10. Add the fibres and mix for no more than 2 minutes.

### **Part 2 - Mixing The Face Coat (20% of a bag or 4.3kg)**

1. Weigh out 0.75Kg or 0.75 litres of water
2. Add approximately 3/4 of the water to your mixing container
3. Empty HALF of the contents of the base mix into your mixer/mixing vessel. DO NOT ADD THE FIBRES
4. Mix until fully blended with no lumps.
5. Use the gauging or bucket trowel to scrape out the base of the bucket or mixing vessel to lift any dry material.
6. Add the remaining water and mix until blended.
7. Mix the final half of the base mix into the bucket. Blend until the mix is smooth. This may take a few minutes.
8. Leave the mix to rest for 10 minutes.
9. Blend the mix once more for 30 seconds.

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### Multiple Bag Projects (Over 0.3sqm at 40mm)

For projects involving more than one bag of Cast-In-Place Mix, individual bags won't necessarily need to be separated into a back-coat and face-coat. In other words, whole bags can be used for the back coat and partial or full bags for the face-coat.

The instructions below are for whole bag mixing.

#### *Whole Bag Mixing*

1. Weigh out 3.75Kg or 3.75 litres of water
2. Add approximately 3/4 of the water to your mixing container
3. Empty HALF of the contents of the base mix into your mixer/mixing vessel. DO NOT ADD THE FIBRES
4. Mix until fully blended with no lumps.
5. Use the gauging or bucket trowel to scrape out the base of the bucket or mixing vessel to lift any dry material.
6. Add the remaining water and mix until blended.
7. Mix the final half of the base mix into the bucket. Blend until the mix is smooth. This may take a few minutes.
8. Leave the mix to rest for 10 minutes.
9. Blend the mix once more for 30 seconds.
10. For a BACK COAT mix add the fibres and mix for no more than 2 minutes. For the FACE COAT do NOT add the fibres.