# Cast-In-Place Mix

Mixing Instructions



## **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

# 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

### 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. WITHOUT SUPERPLASTICIZER - Weigh out 3.75Kg or 3.75 litres of water WITH SUPERPLASTICIZER - weigh out 3.12kg or 3.12 litres of water

PLEASE NOTE - if you are adding CONCRETE LAB SUPERPLASTICIZER (sold separately) to the mix to create a self-levelling mix add NO MORE THAN 3.12 Litres of water Superplasticizer should be dosed at approximately 0.1% of the mix weight. This equates to 25g for the full mix bag.

- 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.