

Fab4 All-Sand Mix

The basic All-Sand Concrete Mix formula is based on the proportion of each ingredient relative to the cement content. The total cement content includes all cement and pozzolans. Ratios are based on weight, not volume. This mix design is suited to cast in place pieces 30 - 50mm thick

INGREDIENTS LIST FOR FULL 'BAG' MIX

- 1no 3.8kg bag of Fab Four
- 1no 20kg General Purpose Cement / White Portland Cement
- 2no 20kg (60kg) GRC Pro Sand / Clean graded sand
- 3no 1kg (3kg) AR Glass fibre (calculated between 3% - 5% of total weight) Omit for face coat as required)
- 8 Litres of clean fresh water

Yield = approx 0.05m³

Tools required

- Dual speed power paddle mixer
- 60 litre bucket
- Trowel
- 2no 5 litre measuring jugs

Safety gear

- Dust mask / respiratory protection
- Eye protection
- Rubber Gloves

MIXING INSTRUCTIONS

1. Add FAB 4 to your bucket
2. Add the 1/2 mix water and wet out the FAB 4 powder. Mix thoroughly and leave to soak for at least 3-5 minutes
3. Add the dry bulk materials (but not the cement) e.g. sand, fibre (as required) and pigment.
4. Add the approx 1/2 remaining mix water and blend all the ingredients thoroughly using a whisk attachment on slow speed.
5. Add the Superplasticizer
6. Let the ingredients mix on high speed for a couple of minutes or until all the ingredients are completely blended together.
7. Slowly add the cement and the balance of the water
8. During mixing, periodically stop the mixer and scrape the sides of the mixer and the paddles. Dry cement and pigment tends to collect in the corners and on the blades.
9. The concrete should be mixed thoroughly, with enough time allowed to ensure all ingredients are completely incorporated into the mix.
 - **Note:** Avoid excessive mixing; generally about five to ten minutes of mixing is sufficient to thoroughly blend all the ingredients using a high shear power paddle mixer.
10. Adjust the consistency of the concrete after all of the ingredients have been added.
 - The concrete should be flowable, self-levelling and show visible air bubbles escaping from the mix.
 - The mix should be very fluid. It should drip off the blades and slosh slightly during mixing. Upon stopping the mixer the concrete should self-level very quickly and air bubbles should be coming out.

AVOID ADDING ADDITIONAL WATER in excess of the 100% calculated amount. Use more superplasticizer if necessary

IF CONCRETE IS NOT THE RIGHT CONSISTENCY STOP AND TRY AGAIN. BETTER TO LOSE A BUCKET THAN A WHOLE BENCH!