IN THE MIX_ Dosage Guide for RADmix based mixes

***Please note:** These dosages are guidelines only and are a great starting point. It is highly recommended that you do your own testing to ensure optimal results in your work environment.

You can change the percentage of each product in the mix calculator in either the Scratch Mix or the Sand & Cement blend. If you're doing a 'from scratch' mix then be aware your sands and cement may have an impact on dosages.

RADmix is a unique admix that contains no polymer and has < 99% Crystaline Silica. With the use of **RADmix** and some minor changes to the plasticiser, water and fibre content, you can achieve a *Pourable SCC mix* , *Sprayable GFRC mix* , a true *ECC mix* , *Clay mix* (Buddy Rhodes hand presssed) or *Hand Pack backer mix* . You will find **RADmix** will make your mix more dense, have minimal to no pinholes, and be easier to trowel than traditional polymer mixes. With a proper curing protocol and blend of sands, you can expect to reach in excess of 100 MPa compressive strengths.

Sprayable GFRC: Spraying a face coat has been the bedrock of GFRC manufacturing for decades. To achieve the best consistency (so that it does not slump on verticals and yet is not too dry to leave voids) you need to up the water a bit (increase fluidity) and back off on the plasticiser (decrease slumping). You are looking for a nice thick shake consistency.

The Best Plasticiser (TBP)	0.2% - 0.3%	
3mm HD Fibes	0.2% - 0.5%	The use of 3mm HD fibres is optional
Water	25% - 27%	

Pourable SCC: More and more artisans are starting to pour SCC mixes straight into moulds without a face coat. This method has the reward of fast completion of a pour but the potential risk that some of the larger bundled fibres will be visible in the surface, especially with a heavier acid wash. To minimise the risk the right mix consisency is needed along with the use of both 3mm HD fibres and 18mm bundled AR fibres. Pourable SCC can be used as a backer mix over face coat on a flat piece.

The Best Plasticiser (TBP)	0.6% - 0.7%	
3mm HD / 18mm bundled	0.3% / 2.3%	This combination will minimise fibres being visible
Water	22% - 24%	

ECC mix: Not all mixes claiming to be ECC are ECC. RADmix was developed to be a true ECC mix. ECC mixes are generally combined with PVA fibres to create strong concrete with high flexural strengths. They can be hand placed or poured into moulds and often are finished with a hand troweled.

The Best Plasticiser (TBP)	0.3% - 0.6%	Depends on the consistency you want
PVA RECS 15	0.90%	Option 1
3mm HD / PVA RECS 15	0.5% / 0.5%	Option 2: 3mm HD increases workability
Water	22% - 24%	

Clay mix: Great for Buddy Rhodes hand pressed or for vertical hand pack over a sprayed face coat.

The Best Plasticiser (TBP)	0.2% - 0.4%	
3mm HD / PVA RECS15	0.5% / 0.3%	Great for hand pressed clay mix
3mm HD / 18mm Bundled	0.3% / 2.5%	For hand packing the back coat
Water	22% - 24%	

Grout mix: A slurry mix to fill any pinholes or voids

*50% Cement *50% RADMix *TBP at 0.3% of batch weight *Ice cold Water 22% of batch weight
1kg Batch: *500g Cement *500g Radmix *3g TBP *220g Ice Cold Water - Add colour as needed

Remember to replace water with Ice in your mix. Aim for your mix temperature to be 10-15 deg C

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