

Ready Mixer

WHAT IS A CONCRETE MIX RATIO?

Concrete is made from combining raw materials together in different amounts, referred to as a ratio, to create a desired outcome. Sometimes that outcome is a specific strength, durability or workability requirement for a project. Understanding your project needs will help you determine the precise mixing ratio needed when creating a batch of concrete. Much like baking a cake, the core ingredients in a concrete recipe are the same, but the amounts of each can change your recipe drastically. So, what are those core ingredients?

CEMENT, SAND, STONE AND WATER

Every batch of concrete requires cement, water, and aggregate. No matter the type of aggregate you use, like sand and gravel or crushed stone, you can use the following tables to get your mixes just right. Determine your desired PSI yield and total yardage needed then use our quick reference guide when weighing and mixing aggregates and cement bags.

STANDARD MIX RATIOS

Yards Produced	Mix Ratio	PSI Yield	Cement Bags Needed	Sand (LBS)	Gravel (LBS)	Water (Gallons)
1	1:2:4	2500 PSI	4	752	1128	24
1	1:3:3	3000 PSI	5	940	1410	30
1	1:2.5:3	3500 PSI	6	1128	1692	37
1	1:2:3	4000 PSI	7	1316	1974	40

CONCRETE MIX RATIOS - 5 GALLON BUCKET

Yards Produced	Mix Ratio	PSI Yield	Cement Bags Needed	Sand (5 Gallon Buckets)	Gravel (5 Gallon Buckets)	Water (Gallons)
1	1:2:4	2500 PSI	4	10	16	24
1	1:3:3	3000 PSI	5	13	20	30
1	1:2.5:3	3500 PSI	6	16	24	37
1	1:2:3	4000 PSI	7	18.8	28.2	40