

# Concrete bag chart: bags per cubic yard and per slab

How many bags of pre-mixed concrete make a cubic yard or a cubic metre, and how many bags a slab needs, by bag size. Counts are rounded up and include no waste allowance.



## US bags: yield and bags per cubic yard

Manufacturer yields. Bags per volume = volume ÷ yield, before waste.

| PRODUCT                                 | BAG             | YIELD       | YIELD (L) | BAGS / CU YD | BAGS / M <sup>3</sup> |
|-----------------------------------------|-----------------|-------------|-----------|--------------|-----------------------|
| Quikrete Concrete Mix 1101              | 40 lb (18.1 kg) | 0.3 cu ft   | 8.5 L     | 90           | 117.7                 |
| Quikrete Concrete Mix 1101              | 50 lb (22.6 kg) | 0.375 cu ft | 10.6 L    | 72           | 94.2                  |
| Quikrete Concrete Mix 1101              | 60 lb (27.2 kg) | 0.45 cu ft  | 12.7 L    | 60           | 78.5                  |
| Quikrete Concrete Mix 1101              | 80 lb (36.2 kg) | 0.6 cu ft   | 17 L      | 45           | 58.9                  |
| Quikrete Concrete Mix 1101 (regional)   | 90 lb (40.8 kg) | 0.675 cu ft | 19.1 L    | 40           | 52.3                  |
| Sakrete High Strength Concrete Mix      | 40 lb (18.1 kg) | 0.3 cu ft   | 8.5 L     | 90           | 117.7                 |
| Sakrete High Strength Concrete Mix      | 60 lb (27.2 kg) | 0.45 cu ft  | 12.7 L    | 60           | 78.5                  |
| Sakrete High Strength Concrete Mix      | 80 lb (36.2 kg) | 0.6 cu ft   | 17 L      | 45           | 58.9                  |
| Sakrete High Strength Concrete Mix      | 90 lb (40.8 kg) | 0.68 cu ft  | 19.3 L    | 39.7         | 51.9                  |
| Quikrete Fast-Setting Concrete Mix 1004 | 50 lb (22.6 kg) | 0.375 cu ft | 10.6 L    | 72           | 94.2                  |
| Quikrete Fast-Setting Concrete Mix 1004 | 60 lb (27.2 kg) | 0.45 cu ft  | 12.7 L    | 60           | 78.5                  |
| Sakrete Fast Setting Concrete Mix       | 50 lb (22.6 kg) | 0.38 cu ft  | 10.8 L    | 71.1         | 92.9                  |
| Sakrete Rapid Post (Canada)             | 66 lb (30 kg)   | 0.5 cu ft   | 14 L      | 54           | 70.6                  |

Yields are manufacturer figures. bags\_per\_cuyd = 27 / yield; bags\_per\_m3 = 1 / (yield x 0.0283168). Sakrete litres computed from cu ft. Round bag counts up.

## Bags for a slab (US)

Slab volume = length × width × thickness ÷ 12 (cu ft); bags = volume ÷ bag yield, rounded up.

### 4 in thick slab (US)

| SLAB       | CU YD | 80 LB | 60 LB | 50 LB | 40 LB |
|------------|-------|-------|-------|-------|-------|
| 4 × 4 ft   | 0.20  | 9     | 12    | 15    | 18    |
| 4 × 8 ft   | 0.40  | 18    | 24    | 29    | 36    |
| 8 × 8 ft   | 0.79  | 36    | 48    | 57    | 72    |
| 10 × 10 ft | 1.23  | 56    | 75    | 89    | 112   |
| 10 × 12 ft | 1.48  | 67    | 89    | 107   | 134   |
| 12 × 12 ft | 1.78  | 80    | 107   | 128   | 160   |
| 10 × 20 ft | 2.47  | 112   | 149   | 178   | 223   |
| 12 × 24 ft | 3.56  | 160   | 214   | 256   | 320   |
| 20 × 20 ft | 4.94  | 223   | 297   | 356   | 445   |

### 6 in thick slab (US)

| SLAB       | CU YD | 80 LB | 60 LB | 50 LB | 40 LB |
|------------|-------|-------|-------|-------|-------|
| 4 × 4 ft   | 0.30  | 14    | 18    | 22    | 27    |
| 4 × 8 ft   | 0.59  | 27    | 36    | 43    | 54    |
| 8 × 8 ft   | 1.19  | 54    | 72    | 86    | 107   |
| 10 × 10 ft | 1.85  | 84    | 112   | 134   | 167   |
| 10 × 12 ft | 2.22  | 100   | 134   | 160   | 200   |
| 12 × 12 ft | 2.67  | 120   | 160   | 192   | 240   |
| 10 × 20 ft | 3.70  | 167   | 223   | 267   | 334   |
| 12 × 24 ft | 5.33  | 240   | 320   | 384   | 480   |
| 20 × 20 ft | 7.41  | 334   | 445   | 534   | 667   |

UK and EU bags

Yields as printed on the data sheets.

| PRODUCT                                         | PACK                              | YIELD                 | BAGS PER M <sup>3</sup>                   | REGION  |
|-------------------------------------------------|-----------------------------------|-----------------------|-------------------------------------------|---------|
| Blue Circle / Tarmac Multi-Purpose Concrete     | bag (weight not printed on sheet) | ~0.01 m <sup>3</sup>  | 100                                       | UK      |
| Blue Circle / Tarmac High Strength Concrete 40N | bag (weight not printed on sheet) | ~0.01 m <sup>3</sup>  | 100                                       | UK      |
| Hanson Multipurpose Concrete                    | MaxiPack20                        | ~0.009 m <sup>3</sup> | 111.1                                     | UK      |
| Hanson Instant Concrete                         | MaxiPack20                        | ~0.009 m <sup>3</sup> | 111.1                                     | UK      |
| SAKRET Premium-Beton C30/37                     | per kg                            | 0.46-0.47 L/kg        | 2,128-2,174 kg dry mix per m <sup>3</sup> | EU (DE) |
| SAKRET Beton-Estrich fein                       | 30 kg                             | ~15 L                 | 66.7                                      | EU (DE) |

Computed column: 1 / yield (Sakret Premium: 1000 L / 0.47-0.46 L/kg). Round up in calculators.

UK bags for a slab, by area

Bags = area × thickness ÷ bag yield, rounded up. 75 mm and 100 mm are Hanson's minimums for shed bases and driveways.

| BAG                                          | DEPTH  | 1 M <sup>2</sup> | 2 M <sup>2</sup> | 4 M <sup>2</sup> | 6 M <sup>2</sup> | 9 M <sup>2</sup> | 12 M <sup>2</sup> | 16 M <sup>2</sup> |
|----------------------------------------------|--------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| Tarmac / Blue Circle (≈0.01 m <sup>3</sup> ) | 75 mm  | 8                | 15               | 30               | 45               | 68               | 90                | 120               |
| Tarmac / Blue Circle (≈0.01 m <sup>3</sup> ) | 100 mm | 10               | 20               | 40               | 60               | 90               | 120               | 160               |
| Hanson MaxiPack20 (≈0.009 m <sup>3</sup> )   | 75 mm  | 9                | 17               | 34               | 50               | 75               | 100               | 134               |
| Hanson MaxiPack20 (≈0.009 m <sup>3</sup> )   | 100 mm | 12               | 23               | 45               | 67               | 100              | 134               | 178               |

- Standard and fast-setting bagged concrete mixes are meant for pours 2 in (50 mm) thick or more.
- About 45 bags of 80 lb concrete make one cubic yard (before waste).
- An 80 lb bag of Quikrete Concrete Mix takes about 6 pints of water to start, up to about 9 pints.
- Add a waste allowance for spillage, uneven ground and form bulge.

Sources (checked 2026-10-23): **Hanson (Heidelberg Materials UK)**: Instant Concrete technical data sheet / Multipurpose Concrete technical data sheet (updated August 2020); **International Code Council / California Building Standards Commission via GoCodebook**: 2025 California Residential Code (based on 2024 IRC): Sections R402, R403, R506 / 2025 California Residential Code Section R403 Footings; **King Packaged Materials / Sika Canada (SAKRETE Canada)**: SAKRETE Rapid Post product data sheet; **National Institute of Standards and Technology**: NIST Guide to the SI (SP 811), Appendix B.9 conversion factors; **National Ready Mixed Concrete Association**: CIP 8 - Discrepancies in Yield (rev. 2016); **SAKRET Trockenbaustoffe Europa**: Technisches Merkblatt SAKRET Premium-Beton (Stand 02.12.2025); **SAKRET Trockenbaustoffe Sachsen**: Technisches Merkblatt SAKRET Beton-Estrich fein BE fein, hosted by BayWa; **SAKRETE of North America**: SAKRETE Fast Setting Concrete Mix technical data sheet, hosted by Home Depot / SAKRETE High Strength Concrete Mix technical data sheet (REV 7-10), hosted by Home Depot; **Tarmac (Blue Circle)**: High Strength Concrete (40N) product data sheet (June 2014), hosted by Wickes / Multi-Purpose Concrete product data sheet (March 2014), hosted by Wickes; **The Quikrete Companies**: Project guide: Concrete Driveways and Curbs / Project guide: Concrete Patios / Project guide: Concrete Sidewalks and Small Slabs / QUIKRETE Concrete Mix No. 1101 Data Sheet (revised Oct 2022) / QUIKRETE Fast-Setting Concrete Mix No. 1004 Data Sheet.

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