

Tile trowel notch, thinset and grout coverage chart

How far a 50 lb (22.7 kg) bag of thinset goes with each trowel notch, and grout coverage by tile size and joint.



Thinset coverage per 50 lb bag, by trowel notch

PRODUCT	TROWEL NOTCH	SQ FT	M ²
Custom VersaBond	1/4 x 1/4 x 1/4 in square	90-100	8.4-9.3
Custom VersaBond	1/4 x 3/8 x 1/4 in square	60-67	5.6-6.2
Custom VersaBond	1/2 x 1/2 x 1/2 in square	42-47	3.9-4.4
LATICRETE 253 Gold	1/4 x 1/4 in (6 x 6 mm)	80-95	7.4-8.8
LATICRETE 253 Gold	1/4 x 3/8 in (6 x 9 mm)	60-70	5.6-6.5
MAPEI Ultraflex 2	1/4 x 1/4 x 1/4 in (6 x 6 x 6 mm)	75-90	6.97-8.36
MAPEI Ultraflex 2	1/4 x 3/8 x 1/4 in (6 x 10 x 6 mm)	55-65	5.11-6.04

Custom m2 converted at 0.0929 m2/sq ft; LATICRETE and MAPEI m2 as printed. Coverage varies with substrate and tile back.

- A 1/4 x 1/4 in notch covers about 75-100 sq ft per 50 lb bag across the three brands.
- Across three US brands a 1/4 x 3/8 in notch covers about 55-70 sq ft per 50 lb bag.
- UK weberset plus uses about 3.0 kg/m2 with a 6 x 6 mm notched trowel, 4.5 kg/m2 for a 3 mm solid bed.
- Custom states mortar contact must be at least 80% in dry areas and 95% in wet areas and exteriors.

Grout coverage: sq ft per 25 lb sanded bag or 10 lb unsanded box

Columns are joint widths in inches.

TILE (IN)	SANDED 1/8	SANDED 3/16	SANDED 1/4	SANDED 3/8	SANDED 1/2	UNSANDED 1/16	UNSANDED 1/8
1 x 1 x 1/4	63	40	25	23	20	44	20
2 x 2 x 1/4	88	73	50	40	33	85	40
3 x 3 x 1/4	150	103	80	55	45	126	60
4-1/4 x 4-1/4 x 1/4	210	143	110	75	60	149	78
6 x 6 x 1/4	263	178	136	93	70	250	120
8 x 8 x 3/8	230	155	113	75	50	220	110
12 x 12 x 3/8	345	230	175	118	90	331	171
16 x 16 x 3/8	458	305	225	144	94	370	185
20 x 20 x 3/8	567	381	280	189	142	453	227
24 x 24 x 3/8	685	458	325	225	150	659	330

From the ©2011 chart; metric chart gives m2 per 11.3 kg bag (e.g. 300x300x9.5 mm at 3 mm joint = 32.1 m2).

Grout use in kg per m² (metric)

MAPEI Ultracolor Plus, by tile size (length × width × thickness) and joint width.

TILE (MM)	2 MM JOINT	3 MM JOINT	5 MM JOINT	8 MM JOINT	10 MM JOINT
75 × 150 × 6	0.4	0.6	1	1.5	1.9
100 × 100 × 7	0.4	0.7	1.1	1.8	2.2
150 × 150 × 6	0.3	0.4	0.6	1	1.3
200 × 200 × 7	0.2	0.3	0.6	0.9	1.1
300 × 300 × 10	0.2	0.3	0.5	0.9	1.1
300 × 600 × 10	0.2	0.2	0.4	0.6	0.8
600 × 600 × 10	0.1	0.2	0.3	0.4	0.5
150 × 900 × 9	0.2	0.3	0.6	0.9	1.1
750 × 750 × 10	0.1	0.1	0.2	0.3	0.4

Subset of the data-sheet table.

- Custom Polyblend Plus Sanded grout is for joints 1/8 to 1/2 in (3.1-12.7 mm); unsanded for joints up to 1/8 in.
- Ultracolor Plus (GB data sheet) is packed in 23 kg bags and 5 kg / 2 kg packs.

Sources (checked 2026-10-23): **Custom Building Products**: Polyblend Plus Sanded Grout technical data sheet (published 3/22/2023) / Polyblend Sanded / Non-Sanded Grout color card and coverage chart (©2011) / VersaBond Professional Tile Mortar product page -coverage table; **LATICRETE International**: 253 GOLD sell sheet DS-167.6-EN-SP-0726 (©2026); **MAPEI Corporation**: Ultraflex 2 technical data sheet (version Aug. 5, 2013); **MAPEI S.p.A.**: Ultracolor Plus technical data sheet (GB) -consumption table and formula; **Saint-Gobain Weber (UK)**: weberset plus tile adhesive - NBS Source product data.

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