



REPAIR MATERIAL SELECTION MATRIX

MAPEI repair mortars stocked at Altitude Construction Supply



	Vertical and Overhead	Rapid-Hardening (trowel / screed)		Form-and-Pour / Form-and-Pump		
Product	Planitop X	Planitop 18 ES	Planitop 18 TG	Planitop 11	Planitop 11 SCC	Planitop 15
Best for	Vertical and overhead repairs (nonslump, non-sag)	Quick return to service when you need more working time than Planitop 18	Horizontal repairs, 1/2" to 2" neat; deeper when extended with aggregate	Large-volume, full-depth repairs (1" to full depth); form-and-pour or pump; horizontal, vertical and overhead	Full-depth structural repairs; self-consolidating, with silica fume	Form-and-pour or pump where high early strength and flowability are needed
MAPEI description	One-component, fast-setting, fiber-reinforced vertical and overhead repair mortar	Very rapid-hardening repair mortar with extended working time	Very rapid-hardening, trowel-grade, high-early-strength repair mortar	Pre-extended, pumpable and pourable concrete mix	Self-consolidating concrete mix with corrosion inhibitor	Form-and-pour, one-component repair mortar
Number of Components	1 or 2	1	1	1	1	1
Maximum Extension Rate	N/A	50%, 25 lbs. (11.3 kg)	80%, 40 lbs. (18.1 kg)	Pre-extended	Pre-extended	50%, 27.5 lbs. (12.5 kg)
Yield, Neat Per Mixed Bag	0.46 cu. ft. (0.0130 m³)	0.41 cu. ft. (0.0116 m³)	0.41 cu. ft. (0.0116 m³)	0.65 cu. ft. (0.0184 m³)	0.5 cu. ft. (0.0142 m³)	0.46 cu. ft. (0.0130 m³)
Minimum Depth, Neat	1/16" (1.5 mm)	1/4" (6 mm)	1/2" (12 mm)	N/A	N/A	3/8" (10 mm)
Maximum Depth, Neat	4" (10 cm)	1" (2.5 cm)	2" (5 cm)	N/A	N/A	4" (10 cm)
Maximum Depth, Extended	N/A	6" (15 cm)	Full-depth	Full-depth	Full-depth	Full-depth
Pot Life	5 min.	30 min.	~ 15 min.	~ 30 min.	~ 30 min.	60 min.
Initial Set (hrs:min)	> 0:06	> 0:45	> 0:15	> 5:00	> 6:00	> 3:00
Final Set (hrs:min)	< 0:25	< 1:50	< 0:40	> 6:00	> 8:00	< 10:00
Minimum Temperature	55°F (13°C)	45°F (7°C)	32°F (0°C)	45°F (7°C)	45°F (7°C)	45°F (7°C)
Compressive Strength (ASTM C109 / CAN/CSA-A5)						
1 day	> 5,075 psi (35 MPa)	> 5,000 psi (34.5 MPa)	> 7,800 psi (53.8 MPa)	> 2,500 psi (17.2 MPa)	> 2,200 psi (15.2 MPa)	> 4,350 psi (30 MPa)
7 days	> 5,800 psi (40 MPa)	> 5,500 psi (37.9 MPa)	N/A	> 4,500 psi (31.0 MPa)	> 5,500 psi (37.9 MPa)	> 8,600 psi (59.3 MPa)
28 days	> 6,600 psi (45.5 MPa)	> 7,000 psi (48.3 MPa)	> 9,400 psi (64.8 MPa)	> 5,000 psi (34.5 MPa)	> 7,000 psi (48.3 MPa)	> 10,875 psi (75 MPa)
Compatible with Mapeshield™ I	●	●	●	●	●	●
Interior and Exterior Applications	●	●	●	●	●	●
Residential / Commercial / Industrial	●	●	●	●	●	●
Minimum ICRI CSP Needed	#5	#5	#5	#5	#5	#5

Values are MAPEI's published typical values from its US Concrete Repair Mortars Solutions brochure (Construction and Restoration Systems quick-reference guide and product descriptions). Planitop 11 strengths: MAPEI data sheet, Aug 2025. Always confirm with the current MAPEI technical data sheet for the product, and follow MAPEI's installation instructions. Questions on which material fits your repair? Call Altitude at (303) 482-1010.