FLOOR UNDERLAYMENT SELECTION GUIDE

TENON®

TCC MATERIALS® A TCC® GROUP COMPANY

SELF-LEVELING UNDERLAYMENT

	LEVEL-FLO® 100	LEVEL-FLO® 200	LEVEL-FLO® 300	SELF-LEVELING RESURFACER	FEATHER EDGE PRO	FEATHER PATCH PRO
						
	• Portland cement-based • Provides a smooth surface • Applications from ⅛ in to 2 in. (3-5 mm) neat and up to 5 in. (127 mm) extended • Accepts non-moisture sensitive tile and stone in 24 hours • Install moisture sensitive floor coverings in 3 days • Encapsulate radiant heat systems	• Provides a smooth surface • Applications from ⅛ in. to 2 in. (2-5 mm) neat and up to 5 in. (127 mm) extended • Walkable in 3-4 hours • Accepts non-moisture sensitive tile and stone in 4 hours • Install moisture sensitive floor coverings in 16-24 hours • Encapsulate radiant heat systems • Portland cement-based	• High-strength • Formulated for maximum flow to achieve superior productivity on large applications • Applications from ⅛ in. to 2 in. (3-52 mm) neat and up to 5 in. (127 mm) extended • Can be featheredged to adjoining elevations • Accepts non-moisture sensitve tile and stone in3-4 hours • Install moisture senstive floor coverings in 16-24 hours • Encapsulate radiant heat systems • Portland cement-based	• Provides a smooth, hard, flat surface • Underlayment or wear surface • Accepts foot traffic in 6 hours • Applications from ⅛ in. to 2 in. (3-25 mm) and can be featheredged to adjoining elevations • Portland cement-based • Use on new Concrete floor slabs with unacceptable finishes • Repair damaged existing concrete • Use for interior and exterior concrete applicatiopns	• Featheredge up to ½ in. (13 mm) thick without cracking • Can be used as embossing leveler • Ultra-smooth, thin finish • Can be applied to concrete with a relative humidity (RH) up to 90% • Can accept tile and stone applications as well as moisture sensitive floor coverings in as little as 30 minutes or when completely dry • Polymer-modified • Fast-setting with initial set in 15-20 minutes • Self-drying • Portland cement-based • Superior workability for easy application • Does not require priming • Exceptional bond strength • Compatible with sealed gypsum based flooring	• 1/16 in. to 2 in. (51 mm) in thickness • Can be applied to concrete with a relative humidity (RH) up to 90% • Can accept tile and stone applications as well as moisture sensitive floor coverings in as little as 30 minutes when completely dry • Polymer-modified • Self-drying, fast-setting with initial set in 15 minutes • Cement-based • Superior workability for easy application • Does not require priming • Exceptional bond strength • Compatible with sealed gypsum based flooring
APPLICATION						
Set Time	20 min	80-120 minutes	80-120 minutes	75-90 minutes	20-30 minutes	75-90 minutes
Thickness	⅛" to 2"	⅛" to 2"	⅛" to 2"	Feather edge to 2"	Feather edge to ½"	Feather edge to 2"
Compressive Strength	4,000 psi (28 days)	8,000 psi (28 days)	8,000 psi (28 days)	5,500 psi (28 days)	4,500 psi (28 days)	5,500 psi (28 days)
Flexural Strength	750 psi (28 days)	900 psi (28 days)	1,000 psi (28 days)	1,200 psi (28 days)	N/A	1,200 psi (28 days)
Temperature Use Range	50°F - 90°F	50°F - 90°F	50°F - 90°F	50°F - 90°F	50°F - 90°F	50°F - 90°F
Industry Standards	ASTM C109, ASTM C348	ASTM C109, ASTM C348	ASTM C109, ASTM C348	ASTM C109, ASTM C348	ASTM C109	ASTM C109, ASTM C348
Designed Use	Interior	Interior	Interior	Interior and exterior	Interior	Interior
Can it be extended with aggregates?	Yes, up to 5"	Yes, up to 5"	Yes, up to 5"	Yes, up to 5"	No	No
Yield/Package	4.2 sq.ft. - 50 sq.ft.	4.2 sq.ft. - 50 sq.ft.	4.2 sq.ft. - 50 sq.ft.	4.2 sq.ft. - 50 sq.ft.	3.75 sq.ft. - 90 sq.ft. (10 lb.)	5.5 sq.ft. - 44 sq.ft.

For Technical Product Data, Industry Standards, and Material Safety Data Sheets on all of the Tenon® products, please visit our website at www.tenonsolutions.com

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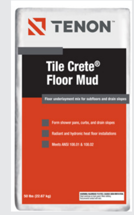
DRY-PACK UNDERLAYMENT

FINE SAND	FINE AND COARSE 50/50 SAND BLEND	COARSE SAND	EXTERIOR FINE SAND (3:1)	FAST-SETTING COARSE SAND	FAST-SETTING FINE SAND	WALL MIX
						
• Setting bed/underlayment for tile and pavers • Ideal for forming shower pans and curbs with slope to drain • Highly bondable • Portland cement-based • Not a wear surface • Interior use only	• Setting bed/underlayment for tile and pavers • Ideal for forming shower pans and curbs with slope to drain • Highly bondable • Portland cement-based • Not a wear surface • Interior use only	• Setting bed/underlayment for tile and pavers • Ideal for forming shower pans and curbs with slope to drain • Highly bondable • Portland cement-based • Not a wear surface • Interior use only	• Setting bed/underlayment for tile and pavers • Ideal for forming shower pans and curbs with slope to drain • Highly bondable • Portland cement-based • Not a wear surface • Mix with Tenon Mighty Bond additive in place of water	• Setting bed/underlayment for tile and pavers • Ideal for forming shower pans and curbs with slope to drain • Highly bondable • Portland cement-based • Not a wear surface • Interior use only	• Setting bed/underlayment for tile and pavers • Ideal for forming shower pans and curbs with slope to drain • Highly bondable • Portland cement-based • Not a wear surface • Interior use only	• Ideal for professional forming of plumb, smooth, seamless base for wall tile • Highly bondable • Conventional scratch and brown base coat over tile lath or concrete masonry • Not a wear surface • Interior use only

APPLICATION

	FINE SAND	FINE AND COARSE 50/50 SAND BLEND	COARSE SAND	EXTERIOR FINE SAND (3:1)	FAST-SETTING COARSE SAND	FAST-SETTING FINE SAND	WALL MIX
Thickness	Min ¾” Max 4”	Min ¾” Max 4”	Min ¾” Max 8”	Min ¾” Max 4”	Min ¾” Max 8”	Min ¾” Max 4”	Min ⅜” Max 2”
Working Time @ 70°F	30 - 40 minutes	30 - 40 minutes	30 - 40 minutes	30 - 40 minutes	≥ 20 minutes	≥ 20 minutes	40 minutes
Pot Life @ 70°F	60 minutes	60 minutes	60 minutes	60 minutes	20 minutes	20 minutes	60 minutes
Initial Set Time @ 70°F	90 - 120 minutes	90 - 120 minutes	90 - 120 minutes	90 - 120 minutes	45 minutes	45 minutes	90 - 120 minutes
Final Set Time @ 70°F	Can accept tile in 24 - 36 hours	Can accept tile in 24 - 36 hours	Can accept tile in 24 - 36 hours	Can accept tile in 24 - 36 hours	Can accept tile in 2 - 4 hours	Can accept tile in 2 - 4 hours	Can accept tile in 12 - 24 hours
Industry Standards	ANSI A108.1A	ANSI A108.1A	ANSI A108.1A	ANSI A108.1A	ANSI A108.1A	ANSI A108.1A	ANSI A108.1, A108.5
Requirements	Reinforcing lath and/or cleavage membrane may be required	Reinforcing lath and/or cleavage membrane may be required	Reinforcing lath and/or cleavage membrane may be required	Reinforcing lath and/or cleavage membrane may be required	Reinforcing lath and/or cleavage membrane may be required	Reinforcing lath and/or cleavage membrane may be required	Reinforcing tile lath required
Intended Uses	Traditional “mud bed” shower floors, curbs, and floors	Traditional “mud bed” shower floors, curbs, and floors	Traditional “mud bed” shower floors, curbs, and floors	Exterior horizontal traditional “mud bed” paver base, shower floors, and curbs	Traditional “mud bed” shower floors, curbs, and floors where fast turn-around is needed	Traditional “mud bed” shower floors, curbs, and floors where fast turn-around is needed	Traditional “wall mud” shower walls, tubs, curved vertical shapes
Suitable Substrates (Refer to Data Sheet for restrictions and notes)	On, above, or below grade non-flexing interior surfaces	On, above, or below grade non-flexing interior surfaces	On, above, or below grade non-flexing interior surfaces	On, above, or below grade non-flexing interior surfaces	On, above, or below grade non-flexing interior surfaces	On, above, or below grade non-flexing interior surfaces	On, above, or below grade non-flexing interior surfaces once properly primed

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