

# Tile Setting Mortars Product Selection Matrix



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ENGINEERED PERFORMANCE SERIES					POLYMER-MODIFIED, SPECIALTY SERIES		POLYMER-MODIFIED SERIES			NON-MODIFIED SERIES	
Permalastic®	Permalastic® Rapid	PermaFlex® 600	Quick PermaFlex® 570	StayFlex® 590	Medium Bed PermaFlex® 550	PermaFlex® Lite 525	PermaFlex® 500	PermaFlex® 400	PermaFlex® 300	PermaSet® 275	PermaSet® 200
Designed for maximum adhesion & deformability. Capable of bridging 3/16" (5 mm) cracks.	Rapid setting Permalastic formula for commercial applications that demand fast return to service – grout 2 to 4 hours.	Superior performance and adhesion. Capable of bridging up to 1/8" (3 mm) cracks.	Rapid setting, grout in 2 to 4 hours for quick return to service.	Large format tile (LFT) mortar providing 20% more coverage than typical tile mortars. No back buttering required.	Large format tile (LFT) mortar used when the embedded thickness is between 3/16" to 3/4" (5 mm to 19 mm).	Lightweight, non-slump tile setting mortar. Provides twice the coverage of typical polymer-modified mortars.	High performance tile setting mortar for difficult to bond substrates and glass tile.	General purpose tile setting mortar for interior and exterior installations of many tile types.	Best value for porcelain tile interior / exterior floor applications over concrete.	Designed for installing ceramic tile on interior walls or floors.	Designed for installing ceramic tile on interior concrete floors.

Technical standards:												
ANSI Standard	A118.4, A118.11 & A118.15	A118.4, A118.11 & A118.15	A118.4, A118.11 & A118.15	A118.4, A118.11 & A118.15	A118.4 & A118.11	A118.4 & A118.11	A118.4 & A118.11	A118.4 & A118.11	A118.4	A118.1*	A118.1*	
ISO 13007 Standard	C2ES2P2	C2FS2P2	C2ES1P2	C2FS1P1	C2TES1P1	C2ES1P1	C2TES1P1	C2ES1P1	C2P1	C2	C1*	C1*

Installs where:												
	Interior / Exterior	Interior / Exterior	Interior / Exterior	Interior / Exterior	Interior / Exterior	Interior / Exterior	Interior / Exterior	Interior / Exterior	Interior / Exterior	Interior / Exterior**	Interior / Exterior**	
	Floors / Walls / Ceilings	Floors / Walls / Ceilings	Floors / Walls / Ceilings	Floors / Walls / Ceilings	Floors / Walls / Ceilings	Floors	Floors / Walls	Floors / Walls / Ceilings	Floors / Walls	Floors	Floors / Walls	Floors

Ideally designed for the installation of:											
Cement tile	■	■	■	■	■	■	■	■	■	■	■
Ceramic tile	■	■	■	■	■	■	■	■	■	■	■
Glass tile	■	■	■	■	■	■	■	■	■	■	■
High bottom lugged tile	■	■	■	■	■	■	■	■	■	■	■
Large format tile (LFT) <sup>1</sup>										■ (Floor & Wall only)	
Non-moisture sensitive natural stone	■	■	■	■	■	■	■	■	■	■	■
Pavers	■	■	■	■	■	■	■	■	■	■	■
Porcelain	■	■	■	■	■	■	■	■	■	■	■
Quarry	■	■	■	■	■	■	■	■	■	■	■










Installs over substrates:											
Cement backerboard (CBU)	■	■	■	■	■	■	■	■	■	■	■
Concrete	■	■	■	■	■	■	■	■	■	■	■
Cork underlayment	■	■	■	■	■	■	■	■	■	■	■
Countertops	■	■	■	■	■	■	■	■	■	■	■
Cracks in substrate	Up to 3/16" (5 mm)	Up to 3/16" (5 mm)	Up to 1/8" (3 mm)								
Cured portland cement mortar	■	■	■	■	■	■	■	■	■	■	■
Cutback adhesive <sup>2</sup>	■	■	■	■	■	■	■	■	■	■	■
Exterior grade plywood	24" OC Max	24" OC Max	19" OC Max	19" OC Max	19" OC Max	19" OC Max	19" OC Max	19" OC Max	16" OC Max	16" OC Max**	16" OC Max**
Gypsum plaster or gypsum board <sup>3</sup>	■	■	■	■	■	■	■	■	■	■	■
Masonry	■	■	■	■	■	■	■	■	■	■	■
Tile over tile	■	■	■	■	■	■	■	■	■	■	■
Uncoupling membrane <sup>4</sup>											
VCT <sup>2</sup>	■	■	■	■	■	■	■	■	■	■	■
Waterproofing	■	■	■	■	■	■	■	■	■	■	■

1. Large format tile (LFT) is defined as any tile or stone with one side ≥ 15" (381 mm).  
2. Difficult to bond substrates, VCT and cutback adhesive require extra preparation. Contact ProSpec® Technical Services.  
3. Residential Dry (RES1) / Commercial Dry (COM1) only.  
4. Follow manufacturer's recommendations.

\* PermaSet® 200 & PermaSet® 275 meet ANSI Standard A118.4 & A118.11, and ISO 13007 C2P1 when mixed with B-730 Mortar / Acrylic Additive.  
\*\* When mixed with B-730 Mortar / Acrylic Additive. Eligible as part of 20-Year System Warranty when mixed with B-730 Mortar / Acrylic Additive.  
\*\*\* Medium Bed Version

# Adhesives & Epoxy Product Selection Matrix

SURFACE PREPARATION		WATER PROOFING / CRACK ISOLATION		
Wall Mud	Floor Mud	B-6000 Waterproof / Crack Isolation	Flex-Guard	Speed-Flex
Pre-measured, portland cement-based plaster used as a scratch & brown coat for ceramic tile.	Portland cement-based mortar designed for thick setting beds under ceramic or quarry tiles.	Latex-based waterproofing membrane underlayment or part of a crack isolation system. IAMPO for shower pans.	Primerless, pressure sensitive, elastomeric, crack isolation and anti-fracture system. Extra Heavy Service Rating.	Primerless, pressure sensitive and elastomeric crack isolation and anti-fracture system. Extra Heavy Service Rating.

ADHESIVES		EPOXIES		GROUTS			
B-4050 Multipurpose Tile Adhesive	B-1000 Tile Adhesive	B-7000 Epoxy Mortar & Grout	B-150 Epoxy Adhesive	ProColor Sanded Grout	ProColor Unsanded Grout	ProColor Plus Tile Grout	B-7000 Epoxy Mortar & Grout
Ready to use, acrylic-based adhesive. Offers outstanding slip resistance. 	Ready to use acrylic-based adhesive. 	100% solid, chemical resistant 3-part tile setting and grouting epoxy.	Acid and alkali resistant 2-part tile setting epoxy.	Portland cement-based grouts for joints from 1/16" to 1/2" (2 mm to 13 mm). Available in 38 colors.  	Portland cement-based grout for joints to 1/8" (3 mm). Available in 38 colors.  	Rapid setting, efflorescence-free, grout for joints from 1/16" to 1/2" (2 mm to 13 mm). Available in 20 colors.   	100% solid, chemical resistant, 3-part tile setting and grouting epoxy.

Technical standards:				
ANSI Standard			A118.10 & A118.12	A118.12

A136.1 Type I & II	A136.1 Type I	A118.3	A118.3	A118.6	A118.6	A118.7	A118.3
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Installs where:					
	Interior	Interior	Interior / Exterior	Interior / Exterior	Interior
	Wall	Floor	Floor / Wall / Ceiling	Interior / Exterior	Interior

Interior	Interior	Interior / Exterior <sup>2</sup>	Interior / Exterior	Interior / Exterior	Interior / Exterior	Interior / Exterior	Interior
Floor / Wall	Floor / Wall	Floor / Wall	Floor / Wall	Floor / Wall / Ceiling	Floor / Wall / Ceiling	Floor / Wall / Ceiling	Floor / Wall / Ceiling <sup>3</sup>

Ideally designed for the installation of:				
Cement tile				
Ceramic tile				
Glass tile				
High bottom lugged tile				
Large format tile (LFT) <sup>1</sup>				
Non-moisture sensitive natural stone				
Moisture sensitive natural stone				
Pavers				
Porcelain				
Quarry				

		■	■	■	■	■	■
■	■	■	■	■	■	■	■
		■	■	■	■	■	■
		■	■	■	■	■	■
		■ <sup>2</sup>	■	■	■	■	■ <sup>3</sup>
		■ <sup>2</sup>	■	■	■	■	■
		■	■	■	■	■	■
■	■	■	■	■	■	■	■
		■	■	■	■	■	■

Installs over substrates:				
Cement backer board (CBU)			■	■
Concrete	■	■	■	■
Cork underlayment				
Cured portland cement mortar	■	■	■	■
Cutback adhesive (properly prepared) <sup>4</sup>			■	■
Cracks in substrate		Up to 1/16" (2 mm)	Up to 3/8" (9 mm)	Up to 3/8" (9 mm)
Exterior grade plywood		24" OC Max	24" OC Max	24" OC Max
Gypsum plaster or gypsum board <sup>5</sup>		■		
Hardened Steel				
Masonry	■	■		
Tile backer board		■	■	■
Tile over tile			■	■
Uncoupling membrane				
VCT <sup>4</sup>			■	■
Waterproofing				

■	■	■	■				
■	■	■	■				
Under only	Under only						
■	■	■	■				
		■	■				
16" OC Max	16" OC Max	16" OC Max	16" OC Max				
■	■	■	■				
■	■	■	■				
■	■	■	■				
		■	■				
		■	■				

1. Large format tile (LFT) is defined as any tile or stone with one side ≥ 15" (381 mm).  
 2. When used as a setting material.  
 3. When used with grout.  
 4. Difficult to bond substrates, VCT and cutback adhesive require extra preparation. Contact ProSpec® Technical Services.  
 5. Residential Dry (RES1) / Commercial Dry (COM1) only.