

# MORTAR / SUBSTRATE SELECTION GUIDE

Substrate	Installation Location	Performance Level	Product To Be Installed	Mortar Recommended	
Concrete Cement Block Cementitious Surfaces Brick Fiberglass Reinforced Backer Board	Interior	Light & Medium Traffic	Quarry Tile, Glazed Tile, Slate, Mosaics	S-300,S-400 Series, S-500, S-777, S-777 w/S-800, or S-810, S-700 w/S-800 or S-810, S-1000, S-1100, S-1200, S-1300, S-2000, S-5000	
			Porcelain Tile Marble	S-300, S-400 Series, S-500, S-600, S-777 w/S-800 or S-810, S-1000, S-1100, S-1200, S-1300, S-2000, S-5000	
		Heavy Traffic	Green Marble	S-300, S-400 Series, S-500, S-600, S-4500, S-5000	
			Quarry Tile, Paver Floor Brick	S-300, S-400 Series, S-500, S-600, S-777 w/S-800 or S-810, S-1000, S-1100, S-1200, S-1300, S-2000, S-4500, S-5000	
	Prolonged Water Exposure	S-777, S-810, S-1000, S-1100, S-1200, S-1300, S-2000, S-4500, S-5000			
	Chemical Resistance	S-400 Series, S-500, S-600, S-4500, S-5000			
	Exterior	Intermittent Weather Exposure		S-300, S-400 Series, S-600 S-777 w/S-800 or S-810, S-1000, S-1100, S-1200, S-1300, S-2000, S-5000	
		Prolonged Exposure (*1)	S-400 Series, S-759 w/S-800, S-777 w/S-800 or S-810, S-1000, S-1100, S-1200, S-1300, S-2000, S-5000		
	Exterior Grade Plywood	Floor (Interior)	Dry Area Light & Medium Traffic	All Types of Tile	S-600,S-300, S-400 Series, S-777 w/S-800 or S-810, S-1000, S-1100, S-1200, S-1300, S-2000, S-5000
			Dry Area Heavy Traffic	All Types of Tile	Plywood not recommended with Thin-Set Method, Heavy Traffic
Wet Area Light & Medium Traffic			All Types of Tile	Plywood not recommended for wet areas; cementitious backer board recommended.	
Wall (Interior)		Dry Area Residential	All Types of Tile	S-300, S-777 w/S-800 or S-810 S-1000, S-1100, S-2000 w/S-800	
		Dry Area Commercial/ Institutional	All Types of Tile	S-300, S-400 Series, S-500, S-500 WC, S-600, S-777 w/S-800 or S-810, S-1000, S-1100, S-1200, S-1300, S-2000, S-5000	
Chemical Resistance		Dry Area Only	Quarry Tile	S-400 Series, S-500, S-600, S-4500, S-5000	

\*1 Surfaces on which tile is to be set must be dry and remain dry during cure period.

NOTE: S-400 Easy Flow, S-4500 use on horizontal surface only.

Substrate	Installation Location	Performance Level	Product To Be Installed	Mortar Recommended
Dry-Wall	Dry Area		All Types of Tile	S-300, S-400 Series, S-500, S-600, S-777, S-777 w/S-810, S-1000, S-1100, S-1200, S-1300, S-2000, S-5000
	Wet Area *1 Wet Area *2	Residential		S-300, S-400 Series, S-500, S-600, S-777 w/S-800 or S-810, S-1000, S-1100, S-1200, S-1300, S-2000, S-5000
		Commercial Institution		S-300, S-400 Series, S-600, S-763 w/S-800, S-777 w/S-800 or S-810, S-1000, S-1100, S-1200, S-1300, S-2000, S-5000
Old Ceramic Tile *3			All Types of Tile	S-300, S-400 Series, S-500, S-600, S-777 w/S-800 or S-810, S-1000, S-1100, S-1200, S-1300 S-2000 w/S-800, S-4500, S-5000
Vinyl Floor Covering *3				S-300, S-400 Series, S-500, S-600, S-777 w/S-800 or S-810, S-1100, S-4500, S-5000
Old Adhesive *3				S-300, S-400 Series, S-500, S-600, S-777 w/S-800 or S-810, S-1100, S-4500, S-5000
Asphalt *3				S-300, S-400 Series, S-500, S-600, S-777 w/S-800 or S-810, S-1100, S-4500, S-5000
Metal *3				S-300, S-400 Series, S-500, S-600, S-777 w/S-800 or S-810, S-1100, S-4500, S-5000
Glass *3				S-300, S-400 Series, S-500, S-600, S-777 w/S-800 or S-810 S-1100, S-4500, S-5000

\*1 Surfaces on which tile is to be set must be dry and remain dry during cure period.

\*2 Use only drywall specified for wet areas or cementitious backer board.

\*3 Surfaces must be properly prepared; tile must be back buttered for 100% coverage. Substrate must be sound and adhered properly to its underlying substrate.

NOTE: S-400 Easy Flow, S-4500 use on horizontal surface only.



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