

Planitop[®] XS

One-Component, Fast-Setting,
Extended-Working-Time, Vertical
and Overhead Repair Mortar



DESCRIPTION

Planitop XS is an extended-working-time variation of *Planitop X*. Shrinkage-compensated, fiber-reinforced, polymer-modified and containing a corrosion inhibitor, *Planitop XS* features *Planitop X*'s outstanding workability and versatility.

FEATURES AND BENEFITS

- Formulated with extended working time (double the working time of *Planitop X*) and fast-curing, reducing downtime and expediting return to service
- Shrinkage-compensated
- Outstanding workability, easily blending into the concrete surface to help disguise the repaired area
- Light gray color resembles originally placed concrete
- From 1/16" to 4" (1.5 mm to 10 cm) in vertical thickness
- From 1/16" to 2" (1.5 mm to 5 cm) in overhead thickness



— MAPEI USA • MAPEI Caribe —





PRODUCT PERFORMANCE PROPERTIES*

Laboratory Tests		Results
Tensile bond strength — ASTM C1583 (CSA CAN/A23.2-6B) (failure in concrete substrate)		
28 days		> 290 psi (2 MPa)
Compressive strength – ASTM C109		
1 day		> 3,000 psi (20.7 MPa)
7 days		> 4,000 psi (27.6 MPa)
28 days		> 5,000 psi (34.5 MPa)
Flexural strength – ASTM C348		
1 day		> 500 psi (3.45 MPa)
28 days		> 800 psi (5.52 MPa)
Tensile strength – ASTM C307		
28 days		> 450 psi (3.10 MPa)
Modulus of elasticity (MOE) – ASTM C469		
28 days		3.23 x 10 ⁶ psi (22.3 GPa)
Permeability to chlorides – ASTM C1202		
28 days		Very low – 100 to 1,000 coulombs
Scaling resistance – ASTM C672		
28 days		0 loss, no scaling (50 cycles)
Freeze/thaw resistance – ASTM C666		
28 days		> 98.5% (300 cycles)
Slant/shear bond strength – ASTM C882 (modified)		
1 day		> 1,000 psi (6.90 MPa)
28 days		> 1,500 psi (10.3 MPa)
Volume change – Exceeds ASTM C928 requirements		
28 days, dry-cured	ASTM C928 specification	<i>Planitop XS</i> typical value
	< -0.15%	< - 0.06
28 days, wet-cured	< +0.15%	+ 0.04%
VOCs (Rule #1168 of California's SCAQMD)		
		0 g per L

* All tests were performed at 73°F (23°C) and 50% relative humidity with a mixture of 1 U.S. gal. (3.79 L) of water per 50-lb. (22.7 kg) bag of Planitop XS. An increase in the water content will alter listed properties.

SHELF LIFE AND PRODUCT CHARACTERISTICS before mixing

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C) in a dry and covered area
Physical state	Powder
Color	Light gray
Dry-solids content	100%

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

APPLICATION PROPERTIES

Mixing ratio	1 U.S. gal. (3.79 L) of water per 50 lbs. (22.7 kg) of <i>Planitop XS</i>
Working time	20 minutes
Initial set – ASTM C191	> 40 minutes
Final set – ASTM C191	< 60 minutes

PACKAGING

Bag: 50 lbs. (22.7 kg)
Pail: 50 lbs. (22.7 kg)

APPROXIMATE COVERAGE**

per 50 lbs. (22.7 kg)

Yield – ASTM C138

0.46 cu. ft. (0.013 m³)

** Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions and setting practices.

CSI DIVISION CLASSIFICATIONS

Cast-in-Place Concrete	03 30 00
Cementitious Decks and Underlayment	03 50 00
Concrete Restoration and Cleaning	03 90 00