

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. This product features a very low emission of volatile organic compounds and includes an offset of greenhouse gas emissions.

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



CO₂ FULLY OFFSET PRODUCTS

Planitop XS is part of the "CO2 Fully Offset in the Entire Life Cycle" line of products. CO_2 emissions measured throughout the life cycle of products from the Zero line in 2023, using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset through the acquisition of third-party-certified carbon credits in support of renewable energy and forestry protection projects: A commitment to the planet, to people and to biodiversity. For more details on how emissions are calculated and on climate-mitigation projects that are financed through certified carbon credits, scan the above QR code.







PRODUCT PERFORMANCE PROPERTIES*

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

CSI DIVISION CLASSIFICATIONS

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



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