

NP - Not Published ND - Not Yet Determined

Mechanical Properties	Ardex - K 500		SURFIX™	
	2" Cubes	4"x8" Cylinders	2" Cubes	4"x8" Cylinders
Compressive Strength, psi (MPa)				
1 Hour	NP		ND	
2 Hours	NP		ND	
3 Hours	NP		1340 (9.2)	
4 Hours	NP		ND	
6 Hours	NP		2230 (15.4)	
24 Hours	NP		2880 (19.9)	
7 Days	NP		4053 (28.0)	
28 Days	5300 (30.1)		6310 (43.5)	
Flexural Strength, psi (MPa)				
7 Days	NP		515 (3.6)	
28 Days	1000 (5.7)		600 (4.3)	
Tensile Strength, psi (MPa)				
7 Days	NP		ND	
28 Days	NP		ND	
Bond Strength, psi (MPa) (I Slant Shear)				
7 Days	NP		1838 (12.7)	
28 Days	NP		2219 (15.3)	
Scaling Resistance, lbs/ft2 (kg/m2)				
25 cycles	NP		0 (0)	
50 cycles	NP		0 (0)	
Modulus of Elasticity, (MOE) - psi (GPa)				
28 Days	NP		2.01 (13.8)	
Coefficient of Thermal Expansion, (CTE) -in/in/°F				
28 Days	NP		ND	
Length Change, % of Total Length				
28 Days Soak / 28 Days Dry	NP		ND / - 0.017	
Direct Tension, psi (MPa)				
7 Days	NP		330 (2.3)	
28 Days	NP		376 (2.6)	
Abrasion Resistance, (mm of wear ASTM C944-99)				
7 Days	NP		ND	
28 Days	NP		0.036	

Special Strength Issues & Requirements:

! MUST USE ARDEX E 25 Resilient Emulsion 2 quarts / bag in high traffic, forklift (rubber wheeled) like environments

Mixing & Placing

Material Composition

Ardex - K 500

SURFIX™

Site Preparation

- Surface Prep: Minimum Material Profile Thickness
- Surface Conditioning

Mechanically clean floor to solid concrete by shotblasting or scarifying or similar
Std. Concrete MUST BE PRIMED with Ardex P51 Primer Allow Min. 3 hrs to dry (up to 24 hours) Use two applications on extremely absorbent concrete

Single component, mineral composite mortar

Recommended, 0.06" min. depth. surface profile 3/8" Min. Material Profile Thickness, no maximum profile thickness -
Dry, clean, stable - No primers or bonding agents required

Mixing Requirements

- Special Product Prep
- Applicable Mixing Equipment • Pumping
- Mix Water Quality • Volume Required • Tolerance
- Mix Water Temperatures
- Aggregate Extension
- Additives Required
- Mixing Time

Mix w/drill & paddle • Can be pumped
No data • 5.5 quarts • DO NOT OVERWATER
No data
Can be extended with 1:1 w/1/8 - 1/4 in. pea gravel
ARDEX E 25 required for high stress areas, (ie:forklifts)
2 minutes

None
Drill & Paddle • Can be pumped
Potable and Non-Potable • 1 Gallon per 5 Gal. unit • + or - 10%
60°F/16°C to 72°F/22°C
Cannot be extended
None
4 to 6 minutes minutes depending on ambient temperatures

Placement

- Working Time @ 72 °F • Initial Set • Final set
- Minimum • Maximum Applicable Ambient Temperatures

10 minutes • 30 minutes • 90 minutes
50°F / 10°C Min. • No Data
16 - 19 hours when a final or wearing layer is to be placed over initial extended base layer.

25 - 35 minutes • 35 minutes • 60 minutes
50°F / 10°C • 90°F/32°C

Curing Requirements

Secondary Activities: Time To Grind / Time To Seal or Coat

- Return To Service: Foot • Wheeled
- Clean-up • Shelf Life
- Safety

No data • 24 hours to 7 days depending on sealer type
3 hours • No Data
Not Published • 1 year
No Health or handling issues

24 hours • 24 hours
3 hours • 6 hours
Water • 1 yr bags, 3 yrs buckets
No Health or handling issues

Cost Per Foot² @ 0.50" Profile

Yield Per Standard Unit (ft²): NEAT | @ 50% Extension
Base Cost per (ft²): NEAT | @ 50% Extension
1/8" - 1/4" Aggregate estimated at \$ 0.10/lb.

55 Lb. Paper Bag \$35.00 **45 Lb. 5 Gallon Bucket or Bag \$34.00**

Estimated Secondary Rehabilitation Costs
Assuming a 100 Sq. Ft. x 0.50" overlayment.

Labor: Assumption ▶ 4 Man Crew @ Avg. Wage & Benefits = 72\$/ Hr.
Hours Required To Perform Overlayment To Point of Final Set as Derived From Chart Below
Includes: Surface Prep, Host Conditioning, Priming, Material Preparation, Mixing, Placing, Finishing, Curing, Strength Agent application

13.75	19.75	9.8	NA
\$2.54	\$1.83	\$3.46	NA
\$540.00	\$540.00	\$216.00	
7.5 Hrs @ 72.00	7.5 Hrs @ 72.00	3 Hrs @ 72.00	

Other Products: Assumption ▶ Includes Primers, Bonding Agents Curing Compounds / Strength Agents

\$0.12	\$0.12	\$0	\$0
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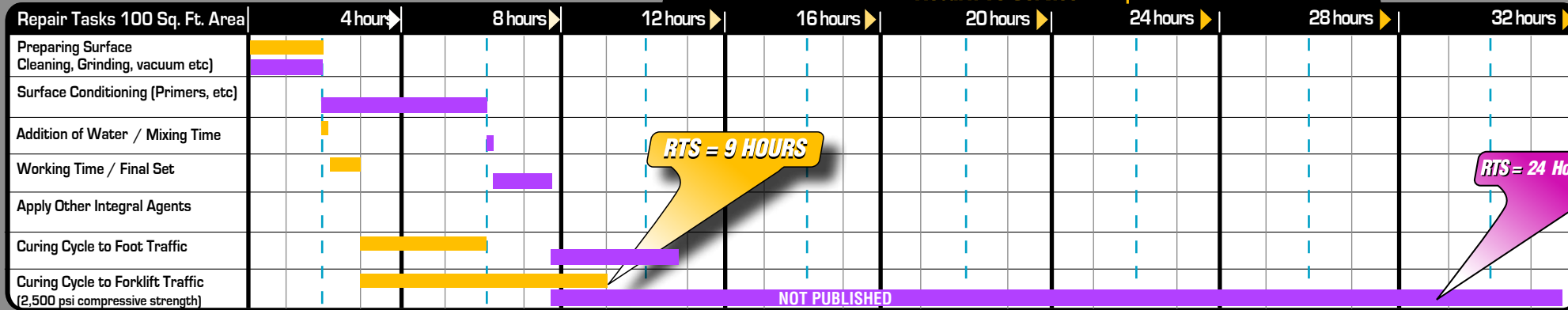
Approximated "REAL Cost" Per Square Foot of Rehab.

\$8.06	\$7.35	\$5.62	NA
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Notes: ARDEX K500 Self Leveling Concrete Topping (Interior Only) requires lengthy cure times when surface is to be sealed with waterbased or solvent based coatings. 24 hrs for water based, 48 hours for solvent based and 7 days for Epoxy wear coatings 20 mil or less application thickness. Cannot be layered without re-priming. Not for heavy duty, steel or hard plastic wheeled equipment

Best VALUE!
Lowest Cost / Ft.²

Actual Return To Service Comparison



Data shown in RED above are estimates

CERATECH Product ▶

SURFIX™

Competitive Product ▶

Ardex - K 500



NP - Not Published ND - Not Yet Determined

Mechanical Properties	Ardex - SD T		SURFIX™	
	2" Cubes	4"x8" Cylinders	2" Cubes	4"x8" Cylinders
Compressive Strength, psi (MPa)				
1 Hour	NP		ND	
2 Hours	NP		ND	
3 Hours	NP		1340 (9.2)	
4 Hours	NP		ND	
6 Hours	NP		2230 (15.4)	
24 Hours	NP		2880 (19.9)	
7 Days	NP		4053 (28.0)	
28 Days	6100 (34.6)		6310 (43.5)	
Flexural Strength, psi (MPa)				
7 Days	NP		515 (3.6)	
28 Days	1200 (6.8)		600 (4.3)	
Tensile Strength, psi (MPa)				
7 Days	NP		ND	
28 Days	NP		ND	
Bond Strength, psi (MPa) (I Slant Shear)				
7 Days	NP		1838 (12.7)	
28 Days	NP		2219 (15.3)	
Scaling Resistance, lbs/ft² (kg/m²)				
25 cycles	NP		0 (0)	
50 cycles	NP		0 (0)	
Modulus of Elasticity, (MOE) - psi (GPa)				
28 Days	NP		2.01 (13.8)	
Coefficient of Thermal Expansion, (CTE) -in/in/°F				
28 Days	NP		ND	
Length Change, % of Total Length				
28 Days Soak / 28 Days Dry	NP		ND / - 0.017	
Direct Tension, psi (MPa)				
7 Days	NP		330 (2.3)	
28 Days	NP		376 (2.6)	
Abrasion Resistance, (mm of wear ASTM C944-99)				
7 Days	NP		ND	
28 Days	NP		0.036	

Special Strength Issues & Requirements:

! MUST USE ARDEX E 25 Resilient Emulsion 2 quarts / bag in high traffic, forklift (rubber wheeled) like environments

Mixing & Placing

Material Composition

Single component, polymer modified , Portland cement mortar

Single component, mineral composite mortar

Site Preparation

- Surface Prep: Minimum Material Profile Thickness
- Surface Conditioning

Mechanically clean floor to solid concrete by shotblasting or scarifying or similiar. / 1/4 -2" in single app; 5" when extended
Std. Concrete MUST BE PRIMED with Ardex P51 Primer, TWICE Allow Min. 3 hrs to dry (up to 24 hours) Drying time cold be 6 - 48 hours total

Recommended, 0.06" min. depth. surface profile 3/8" Min. Material Profile Thickness, no maximum profile thickness -
Dry, clean, stable - No primers or bonding agents required

Mixing Requirements

- Special Product Prep
- Applicable Mixing Equipment • Pumping
- Mix Water Quality • Volume Required • Tolerance
- Mix Water Temperatures
- Aggregate Extension
- Additives Required
- Mixing Time

Mix w/drill & paddle • Can be pumped w/ ARDEX levelcraft pump
No data • 5.0 quarts • DO NOT OVERWATER
No data
Can be extended with 1:1 w/1/8 - 1/4 in. or larger pea gravel
ARDEX E 25 required for high stress areas, (ie:forklifts)
2 - 3 minutes

None
Drill & Paddle • Can be pumped
Potable and Non-Potable • 1 Gallon per 5 Gal. unit • + or - 10%
60°F/16°C to 72°F/22°C
Cannot be extended
None
4 to 6 minutes minutes depending on ambient temperatures

Placement

- Working Time @ 72 °F • Initial Set • Final set
- Minimum • Maximum Applicable Ambient Temperatures

10 minutes • 10 minutes • 45 minutes
50°F / 10°C Min.Surface temp • No data
16 - 19 hours when a final or wearing layer is to be placed over initial extended base layer.

25 - 35 minutes • 35 minutes • 60 minutes
50°F / 10°C • 90°F/32°C

Curing Requirements

Secondary Activities: Time To Grind / Time To Seal or Coat

- Return To Service: Foot • Wheeled
- Clean-up • Shelf Life
- Safety

No data • 2-3 hours for water-borne sealants @50% Rel. Humidity
3 hours @ @50% Rel. Humidity • No data
No data / 6 months
No Health or handling issues

24 hours • 24 hours
3 hours • 6 hours
Water • 1 yr bags, 3 yrs buckets
No Health or handling issues

Cost Per Foot² @ 0.50" Profile

Yield Per Standard Unit (ft²): NEAT | @ 50% Extension
Base Cost per (ft²): NEAT | @ 50% Extension
1/8" - 1/4" Aggregate estimated at \$ 0.10/lb.

	50 Lb. Paper Bag \$55.75	
Yield Per Standard Unit (ft ²):	12.50	16.00
Base Cost per (ft ²):	\$4.46	\$3.53

	45 Lb. 5 Gallon Bucket or Bag \$34.00	
Yield Per Standard Unit (ft ²):	9.8	NA
Base Cost per (ft ²):	\$3.46	NA

Estimated Secondary Rehabilitation Costs

Assuming a 100 Sq. Ft. x 0.50" overlayment.
Labor: Assumption ▶ 4 Man Crew @ Avg. Wage & Benefits = 72\$/ Hr.
Hours Required To Perform Overlayment To Point of Final Set as Derived From Chart Below
Includes: Surface Prep, Host Conditioning, Priming, Material Preparation, Mixing, Placing, Finishing, Curing, Strength Agent application

Estimated Secondary Rehabilitation Costs	\$702.00	\$702.00
	9.75 Hrs @ 72.00	9.75 Hrs @ 72.00

Estimated Secondary Rehabilitation Costs	\$216.00	
	3 Hrs @ 72.00	

Other Products: Assumption ▶ Includes Primers, Bonding Agents Curing Compounds / Strength Agents

Other Products:	\$0.12	\$0.12
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Other Products:	\$0	\$0
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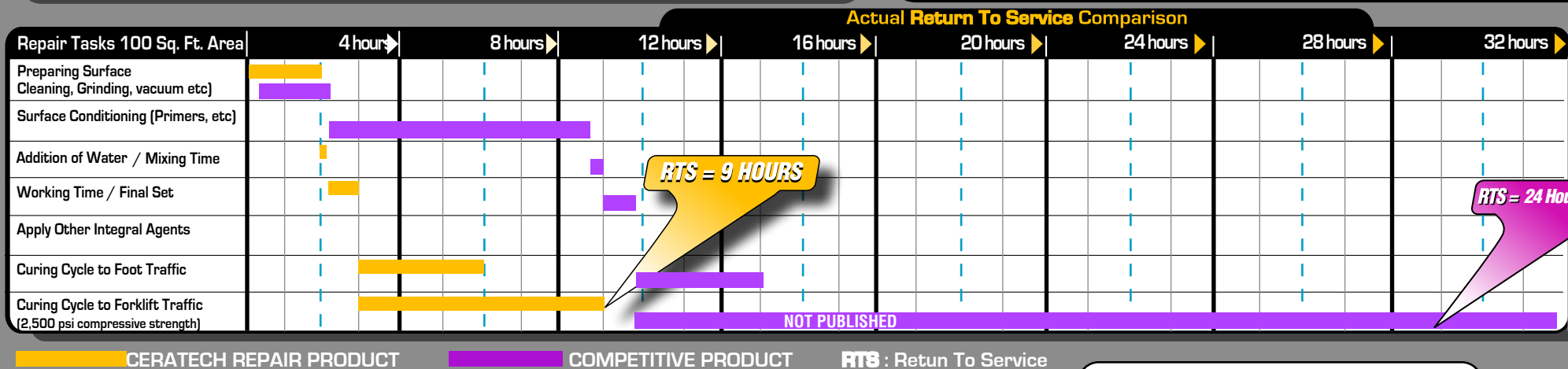
Approximated "REAL Cost" Per Square Foot of Rehab.

Approximated "REAL Cost" Per Square Foot of Rehab.	\$11.60	\$10.62
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Approximated "REAL Cost" Per Square Foot of Rehab.	\$5.62	NA
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Notes: ARDEX SD-T Self Drying, Self Leveling Concrete Topping (Interior Only) requires lengthy cure times when surface is to be sealed with waterbased or solvent based coatings. 24 hrs for water based, 48 hours for solvent based and 7 days for Epoxy wear coatings 20 mil or less application thickness. Cannot be layered without re-priming. Not for heavy duty, steel or hard plastic wheeled

Best VALUE!
Lowest Cost / Ft.²



Data shown in RED above are estimates

CERATECH Product ▶

SURFIX™

Competitive Product ▶

Ardex - SD T



NP - Not Published ND - Not Yet Determined

Mechanical Properties	SILPRO- Fastcrete		SURFIX™	
	2" Cubes	4"x8" Cylinders	2" Cubes	4"x8" Cylinders
Compressive Strength, psi (MPa)				
1 Hour	2000 (13.8)		ND	
2 Hours	NP		ND	
3 Hours	3500 (24.1)		1340 (9.2)	
4 Hours	NP		ND	
6 Hours	NP		2230 (15.4)	
24 Hours	5000 (34.5)		2880 (19.9)	
7 Days	NP		4053 (28.0)	
28 Days	7500 (51.7)		6310 (43.5)	
Flexural Strength, psi (MPa)				
7 Days	1250 (8.6)		515 (3.6)	
28 Days	1400 (9.7)		600 (4.3)	
Tensile Strength, psi (MPa)				
7 Days	400 (2.8)		ND	
28 Days	470 (3.2)		ND	
Bond Strength, psi (MPa) (I Slant Shear)				
7 Days	1950 (13.4)		1838 (12.7)	
28 Days	2550 (17.6)		2219 (15.3)	
Scaling Resistance, lbs/ft2 (kg/m2)				
25 cycles	NP		0 (0)	
50 cycles	NP		0 (0)	
Modulus of Elasticity, (MOE) - psi (GPa)				
28 Days	4.22 (29.1)		2.01 (13.8)	
Coefficient of Thermal Expansion, (CTE) -in/in/°F				
28 Days	NP		ND	
Length Change, % of Total Length				
28 Days Soak / 28 Days Dry	NP		ND / - 0.017	
Direct Tension, psi (MPa)				
7 Days	NP		330 (2.3)	
28 Days	NP		376 (2.6)	
Abrasion Resistance, (mm of wear ASTM C944-99)				
7 Days	NP		ND	
28 Days	NP		0.036	

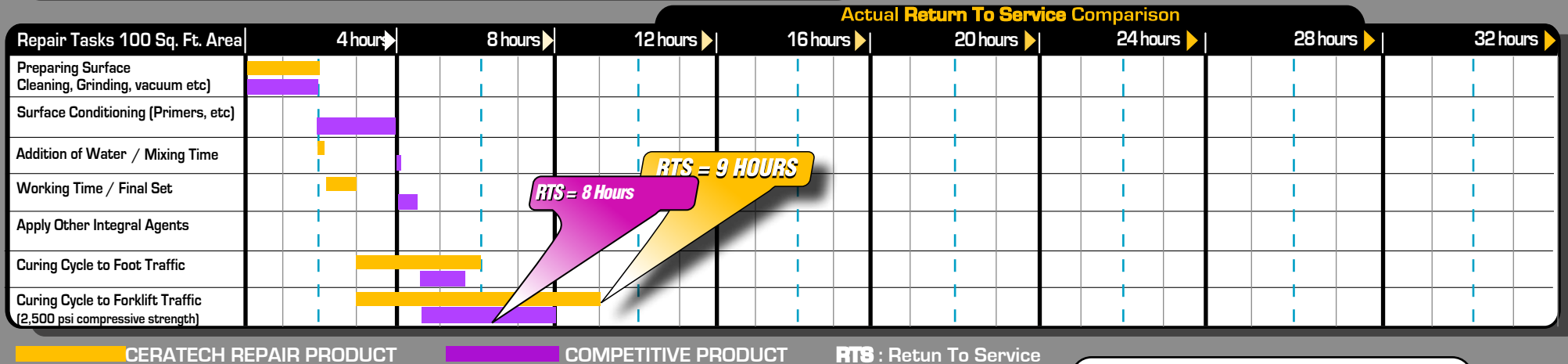
Special Strength Issues & Requirements:

Mixing & Placing ▼

	SILPRO- Fastcrete	SURFIX™
Material Composition	Single component, polymer modified, fiber reinforced, Portland cement mortar	Single component, mineral composite mortar
Site Preparation ▼		
• Surface Prep: Minimum Material Profile Thickness	Mechanically clean floor to solid concrete, & clean. Saw cut 1.0" deep for road and bridge repairs.(square)	Recommended, 0.06" min. depth. surface profile 3/8" Min. Material Profile Thickness, no maximum profile thickness -
• Surface Conditioning	Dampen surfae, allow to dry - then apply C-21 Acrylic primer Do not dampen wood floors	Dry, clean, stable - No primers or bonding agents required
Mixing Requirements ▼		
• Special Product Prep	No data	None
• Applicable Mixing Equipment • Pumping	Mix w/ low speed drill & paddle or mortar mixer / No data	Drill & Paddle • Can be pumped
• Mix Water Quality • Volume Required • Tolerance	Potable • 3.5 quarts • + or - several ounces	Potable and Non-Potable • 1 Gallon per 5 Gal. unit • + or - 10%
• Mix Water Temperatures	No data	60°F/16°C to 72°F/22°C
• Aggregate Extension	Can be extended 25-40# 3/8" crushed stone for repairs 0.75" - 3.0"	Cannot be extended
• Additives Required	Use Speedtop for thin applications, Masco for int / exterior apps.	None
• Mixing Time	2 - 3 minutes, lump free trowelable consistency	4 to 6 minutes minutes depending on ambient temperatures
Placement ▼		
• Working Time @ 72 °F • Initial Set • Final set	15 minutes • 20 minutes • 30 minutes	25 - 35 minutes • 35 minutes • 60 minutes
• Minimum • Maximum Applicable Ambient Temperatures	50°F / 10°C min.surface, air and mat'l. temp. • No data	50°F / 10°C • 90°F/32°C
Curing Requirements	Cover with plastic sheets when dry to touch. Do not soak or saturate with water.	None
Secondary Activities: Time To Grind / Time To Seal or Coat	No data / 1 hr. for thinset, carpets in 2 hrs., 12 hrs. for non-porous coverings	24 hours • 24 hours
• Return To Service: Foot • Wheeled	1 hour • 3 hours (forklift & motor traffic) @70°F	3 hours • 6 hours
• Clean-up • Shelf Life	No data • 1 year	Water • 1 yr bags, 3 yrs buckets
• Safety	No Health or handling issues	No Health or handling issues
Cost Per Foot² @ 0.50" Profile	50 Lb. Paper Bag \$ND	
Yield Per Standard Unit (ft ²): NEAT @ 50% Extension	12.5	16.00
Base Cost per (ft ²): NEAT @ 50% Extension 1/8" - 1/4" Aggregate estimated at \$ 0.10/lb.	\$ND	\$ND
Estimated Secondary Rehabilitation Costs ▼ Assuming a 100 Sq. Ft. x 0.50" overlayment.		
Labor: Assumption ▶ 4 Man Crew @ Avg. Wage & Benefits = 72\$/ Hr. Hours Required To Perform Overlayment To Point of Final Set as Derived From Chart Below Includes: Surface Prep, Host Conditioning, Priming, Material Preparation, Mixing, Placing, Finishing, Curing, Strength Agent application	324.00 4.50 Hrs @ 72.00	\$324.00 4.50 Hrs @ 72.00
Other Products: Assumption ▶ Includes Primers, Bonding Agents Curing Compounds / Strength Agents	\$0.12	\$0.12
Approximated "REAL Cost" Per Square Foot of Rehab.	\$ND	\$ND

Best VALUE!
Lowest Cost / Ft.²

Notes:



Data shown in RED above are estimates

CERATECH Product ▶



Competitive Product ▶

SILPRO- Fastcrete