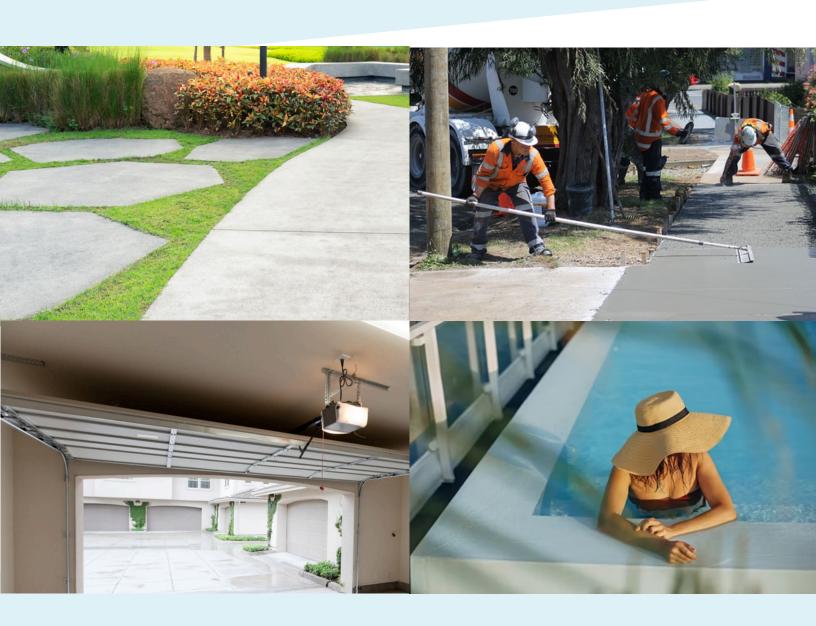
STI POLYMER CONCRETE COATINGS





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Concrete coatings are designed to protect, strengthen, and enhance concrete surfaces. Whether it's a driveway, warehouse floor, or exterior wall, these coatings shield against water, chemicals, UV damage, and abrasion. They help prevent cracking, staining, and surface deterioration while improving appearance and extending the life of the concrete.

Key Features:

- ✓ Water resistance
- ✓ Abrasion durability
- ✓ Chemical protection
- ✓ Hardness

Applications:

- ✓ Pool decks
- ✓ Walkways
- ✓ Porches
- ✓ Garage floors







STI Concrete Offerings



Property	Sycoat® 8655	Sycoat® 2020	Sycoat® 223	Sycoat® 299	Sycoat® UC-404	Sycoat® 520	Sycoat® 123	Sycoat® 822
Percent Solids	49	42	49	49	49	44	49	50
Polymer	Acrylic	Acrylic	Styrene Acrylic	Styrene Acrylic	Styrene Acrylic	Styrene Acrylic	Styrene Acrylic	Styrene Acrylic
Viscosity @ 25°C (cps.)	<1,500	500 - 1,500	500 - 2,000	500 - 2,000	500 - 2,000	≤300	300 - 700	200 - 1,000
рН	9.0	8.9	8.5	8.5	8.5	8.5	8.5	8.5
Tg (°C)	30	46	50	32	14	23	25	1
Density (lbs./gallon) @ 25°C	8.8	8.8	8.4	8.5	8.5	8.4	8.7	8.7
Particle Size (nm)	160	105	150	160	140	160	150	170

Typical Physical and Performance Properties

Concrete Tough, Weather Ready.

Anionic

Yes

No

Anionic

No

Yes

Anionic

Yes

No

Anionic

Yes

Yes

Advanced concrete polymers designed for penetration, water resistance, and lasting surface protection.



Dispersion Type

APEO Free

Self-Xlinking

Anionic

Yes

Yes

Anionic

No

Yes

Anionic

Yes

No

Anionic

Yes

No

Featuring Sycoat® 2020



Technical Data Sheet

Description

Core Shell Silane Modified Acrylic Emulsion

Suggested Uses

- Finished topical, high-gloss concrete coating
- · No formulating needed
- Wood varnish
- Concrete sealers and stains

Characteristics

- Low VOC
- · Small particle size
- Excellent water resistance
- Great penetration
- Excellent blush resistance
- Coatings made with Sycoat 2020 will demonstrate outstanding UV resistance
- Self-Crosslinking

Typical Physical Properties						
Property	Value					
Percent Solids	41 -43					
Polymer Type	Acrylic					
Brookfield Viscosity @ 25°C RVT #62 @ 12 rpm (cps.)	500 - 1,500					
рН	8.6 - 9.2					
Tg (°C)	46					
MFFT (°C)	3					
Density (lbs./gallon) @ 25°C	8.8					
Particle Size (nm)	105					
Gloss @ 20°	60.5					
Gloss @ 60°	84.5					
Dispersion Type	Anionic					
Appearance (wet)	Milky White					
Odor	Slight Acrylic					



Featuring Sycoat® 2020



Testing Evaluated

- Konig Hardness
- Taber Abrasion
- Chemical Resistance
- Hot Tire Pick-Up Resistance



Featuring Sycoat® 2020



Concrete Patio Paint

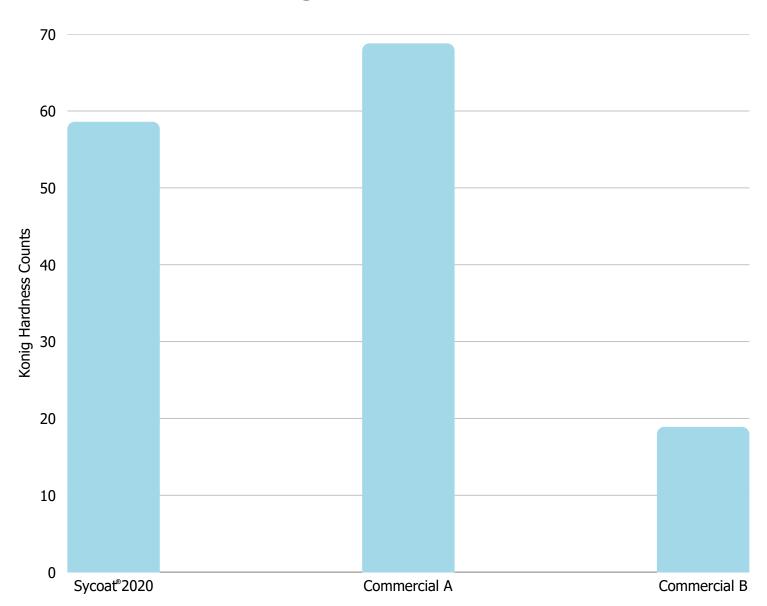
Carrier Solvent efoamer spersant	162.80 10.00 4.00	19.6 1.3				
efoamer	4.00					
		0.5				
spersant		0.5				
	1.00	0.1				
spersant	9.00	1.0				
tting agent	2.00	0.2				
Pigment	140.00	4.2				
xtender	68.00	3.1				
Pigment	4.50	0.2				
Mix 5 minutes						
Carrier	19.60	2.4				
Solvent	5.00	0.7				
eservative	1.00	0.1				
ldewcide	8.00	8.0				
% Acrylic	481	54.7				
Solvent	5.00	0.6				
efoamer	4.00	0.5				
lip Agent	10.00	1.2				
Carrier	65.00	7.8				
nickener	4.00	0.4				
Total	994.90	99.4				
PVC	22.0%					
WS	43.8%					
VS	33.1%					
s/gallon	10.0					
	Carrier Solvent eservative Idewcide O' Acrylic Solvent efoamer lip Agent Carrier nickener Total PVC WS VS	140.00 68.00 4.50 Carrier 19.60 5.00 1.00				



Featuring Sycoat® 2020



Konig Hardness Evaluation



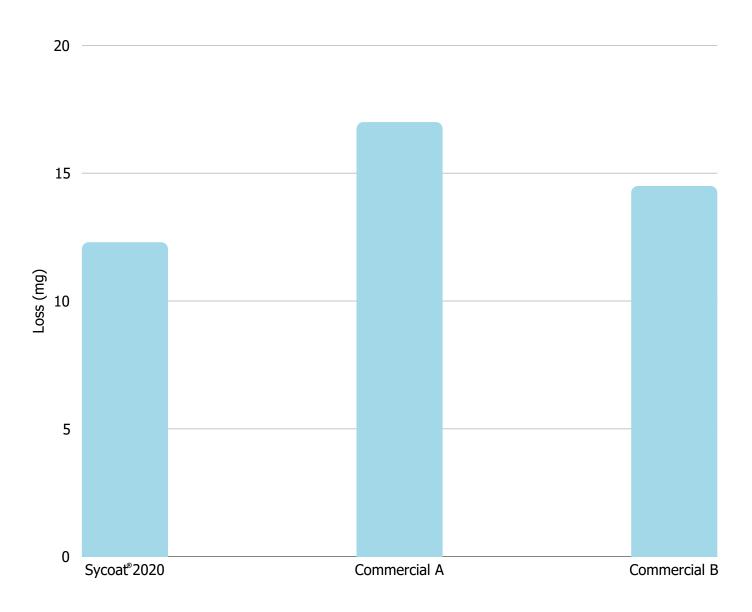
- Paint samples were dried for 7 days prior to testing.
- Higher Konig counts indicate a harder surface.
- Results show that Sycoat 2020 forms a hard, durable film, comparable to the leading commercial product. Its performance significantly exceeds that of Commercial B and closely rivals Commercial A.



Featuring Sycoat® 2020



Taber Abrasion Evaluation



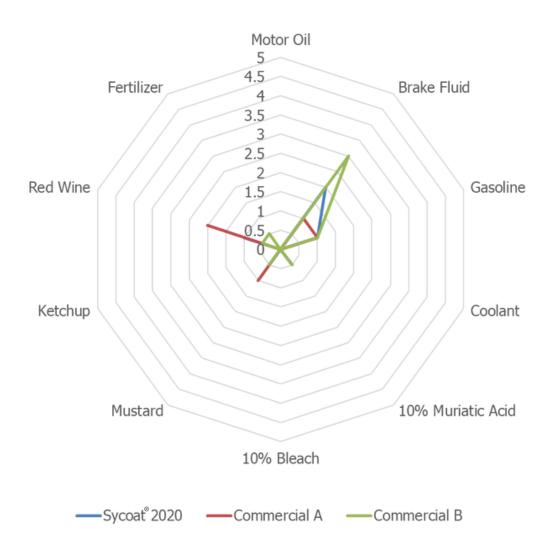
Paint samples were dried overnight before testing. A Taber with CS-17 wheels, 500g load was used and ran for 500 cycles. Sycoat 2020 demonstrated superior abrasion resistance, with less material loss than both commercial controls.



Featuring Sycoat® 2020



Chemical Resistance



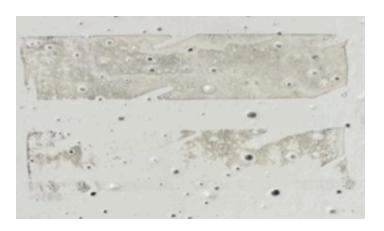
Paint samples were dried overnight before chemical exposure. Chemicals remained on the surface for 24 hours before evaluation. Sycoat® 2020 showed excellent chemical resistance, outperforming both commercial controls. (Scale: 0 = no change, 5 = total failure)



Featuring Sycoat® 2020



Hot Tire Pickup Results



Sycoat 2020



Competitive A

Paint samples were dried overnight before testing. A heated, wet tire was placed on each coating with a pressure of 40 lb/in². Sycoat® 2020 showed superior resistance, with no visible imprint and less coating removal than the commercial control.



Performance Summary of Sycoat® 2020



Conclusion

Sycoat 2020 demonstrates excellent performance across key durability and protection metrics for concrete coatings:

- Hardness: Comparable to leading commercial products, indicating a tough, durable film.
- **Abrasion Resistance**: Lower material loss confirms enhanced surface wear resistance.
- **Chemical Resistance**: Strong protection against a wide range of harsh substances.
- **Hot Tire Pickup**: No imprint or coating removal under stress conditions.

Sycoat 2020 delivers premium protection and durability—making it an ideal choice for demanding concrete applications.

