STI POLYMER

ELASTOMERIC COATINGS

Highlighting Sycoat® 7626

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ELASTOMERIC COATINGS

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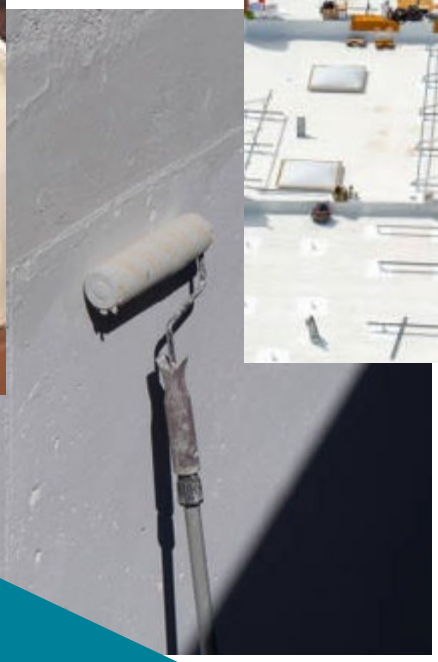
Elastomeric coatings are high-performance protective liquid applied membranes designed to provide a flexible and durable film that adheres to surfaces like masonry, wood, metal or existing membranes. Elastomeric roof coatings allow for the expansion and contraction of the substrate without cracking or losing adhesion.

Key Features:

- ✓ Low temperature flexibility
- ✓ Crack bridging
- ✓ Waterproofing
- ✓ Durability

Applications:

- ✓ Roof Coatings
- ✓ Concrete protection
- ✓ Below grade
- ✓ Prevent moisture intrusion



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STI Elastomeric Offerings

Typical Physical and Performance Properties

Property	Sycoat® EC-064	Sycoat® 29	Sycoat® 166	Sycoat® 7648	Sycoat® 7626	Sycoat® 7649	Sycoat® 84
Percent Solids	50	55	58	55	55	55	55
Polymer	Acrylic	Acrylic	Acrylonitrile Acrylic	Styrene Acrylic	Acrylic	Styrene Acrylic	Styrene Acrylic
Viscosity @ 25°C (cps.)	300 - 600	300 - 900	100 - 300	200 - 1,000	≤2,500	200 - 1,000	200 - 1,000
pH	8.0	8.5	6.0	8.5	8.5	8.5	8.5
Tg (°C)	-35	-22	-10	-10	-4	0	0
Density (lbs./gallon) @ 25°C	8.5	8.6	8.8	8.7	8.5	8.7	8.7
Particle Size (nm)	170	180	220	230	100	210	190
Dispersion Type	Anionic	Anionic	Anionic	Anionic	Anionic	Anionic	Anionic
APEO Free	No	Yes	No	Yes	Yes	Yes	Yes
Self-Cleaning	No	No	No	Yes	Yes	Yes	No

SHINE BRIGHT , STAY CLEAN

DISCOVER THE WONDERS OF SELF - CLEANING
WHITE ROOF POLYMERS NEWEST TECHNOLOGY

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Sycoat® 7626 TDS

Technical Data Sheet

Description

All-acrylic water-based polymer for barrier and elastomeric coatings

Characteristics

- Excellent water resistance
- Low water absorption as neat polymer
- Excellent flexibility at low temperatures
- Excellent adhesion to concrete surfaces
- Low VOC
- UV Stability
- **APEO Free Product**

Typical Physical Properties

Property	Value
Percent Solids	54 - 56
Polymer Type	Acrylic
Brookfield Viscosity @ 25°C RVT #3 @ 20 rpm (cps.)	≤ 2,500
pH	8.0 - 9.0
Tg (°C)	-4
MFFT (°C)	≤ 0
Density (lbs./gallon) @ 25°C	8.5
Particle Size (nm)	100
Permeability (perms)	3.2
Dispersion Type	Anionic
Appearance (wet)	Milky White
Odor	Slight Acrylic

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ASTM Standards

ASTM D6083 is a standard of specifications for liquid-applied acrylic coatings used in roofing.

Liquid Properties D6083 Standards

- **ASTM D562 = Viscosity** 85 to 141 KU
- **ASTM D2697 = Volume Solids** >50%
- **ASTM D1644 = Weight Solids** > 60%

Commonly Tested D6083 Standards

- **ASTM D2370 = Elongation** > 100%
- **ASTM D2370 = Tensile Strength** > 200 psi
- **ASTM D624 = Tear Strength** > 60 lbf/in
- **ASTM C794 = Peel Adhesion** > 2 pli
- **ASTM D1653 = Permeance** < 50 perms
- **ASTM D471 = Water Swelling** < 20%
- **ASTM D522 = Low Temperature Flex** No Cracking (pass/fail)

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Two Pigment Volume Concentration Starting Point Formulations

Pigment Grind		Pounds	Gallons	Pounds	Gallons
Water	Carrier	128.0	15.4	128.00	15.40
Propylene Glycol	Solvent	10.0	1.2	10.00	1.17
Natrosol 250 HBR	Thickener	1.5	0.2	1.50	0.15
Ammonium Hydroxide	Buffer	1.0	0.1	1.00	0.14
Tamol 165A	Dispersant	5.0	0.5	5.00	0.54
KTPP	Dispersant	1.0	0.1	1.00	0.08
Surfynol DF58	Dispersant	2.0	0.3	2.00	0.28
Mix 5 minutes					
Ti-Pure R902	TiO2	124.0	3.7	102.92	3.09
Drikalite	Calcium Carbonate	355.0	15.7	294.65	13.05
Zinc Oxide	Extender	6.0	0.1	6.00	0.13
Acticide MV14	Preservative	1.0	0.1	1.00	0.11
Polyphase 663	Mildewcide	12.0	1.3	12.00	1.25
	Totals	**646.5**	**38.7**	**565.07**	**35.38**
Let Down					
Sycoat® 7626	**AA Binder**	515.0	58.4	602.55	68.31
Ammonium Hydroxide	Buffer	1.5	0.2	1.50	0.20
Surfynol DF58	Defoamer	1.0	0.1	1.00	0.14
Texanol	Solvent	4.0	0.5	4.00	0.50
Water	Carrier	14.5	1.7	14.50	1.74
Acrosol SCT 275	Thickener	4.0	0.4	4.00	0.44
	Final Totals	**1186.5**	**100.1**	**1192.62**	**106.73**

PVC	37.9%	30.2%
WS	65.3%	62.1%
VS	52.4%	51.1%
# / gal	11.9	11.2

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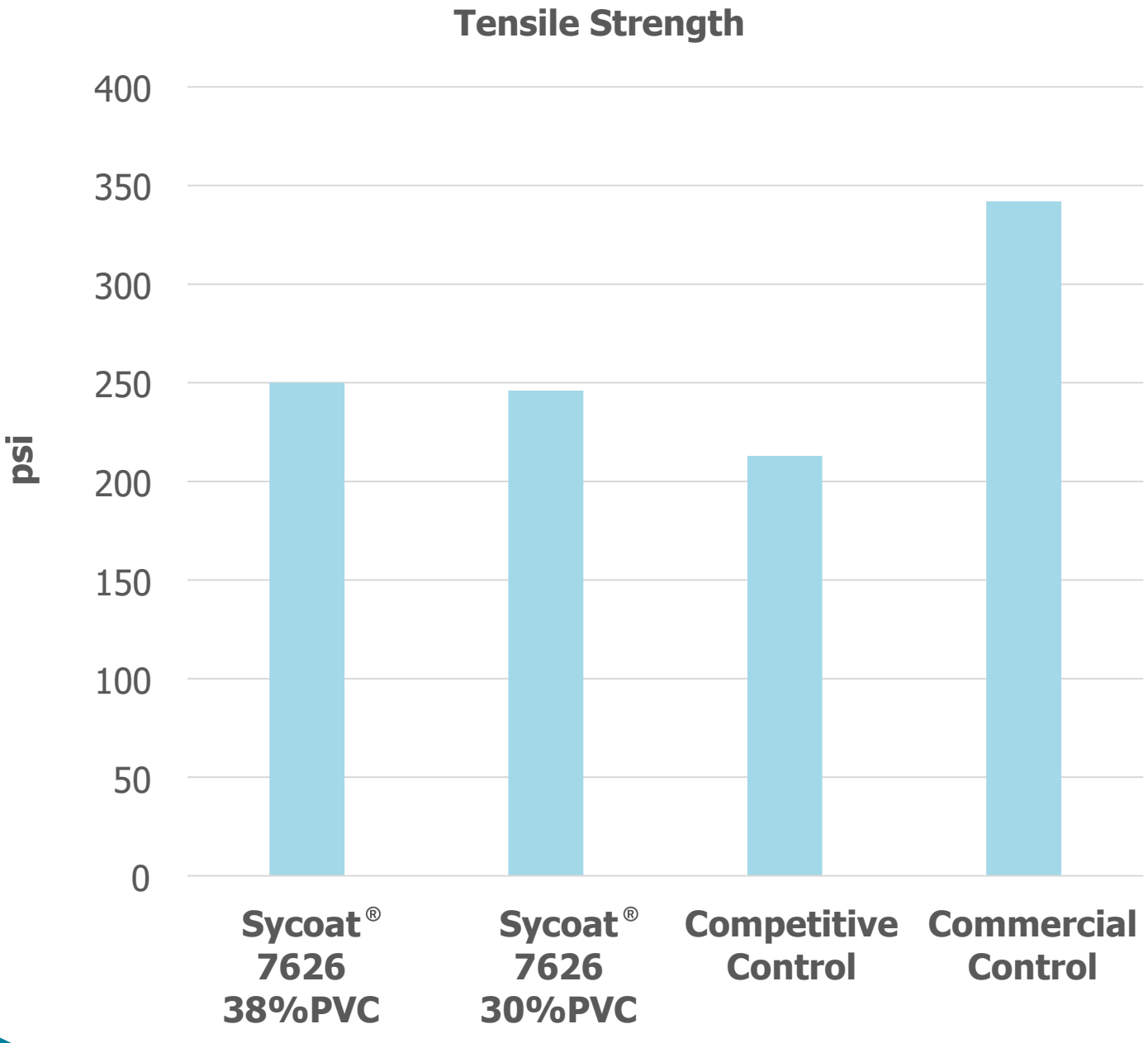
Two Pigment Volume Concentrations Evaluated



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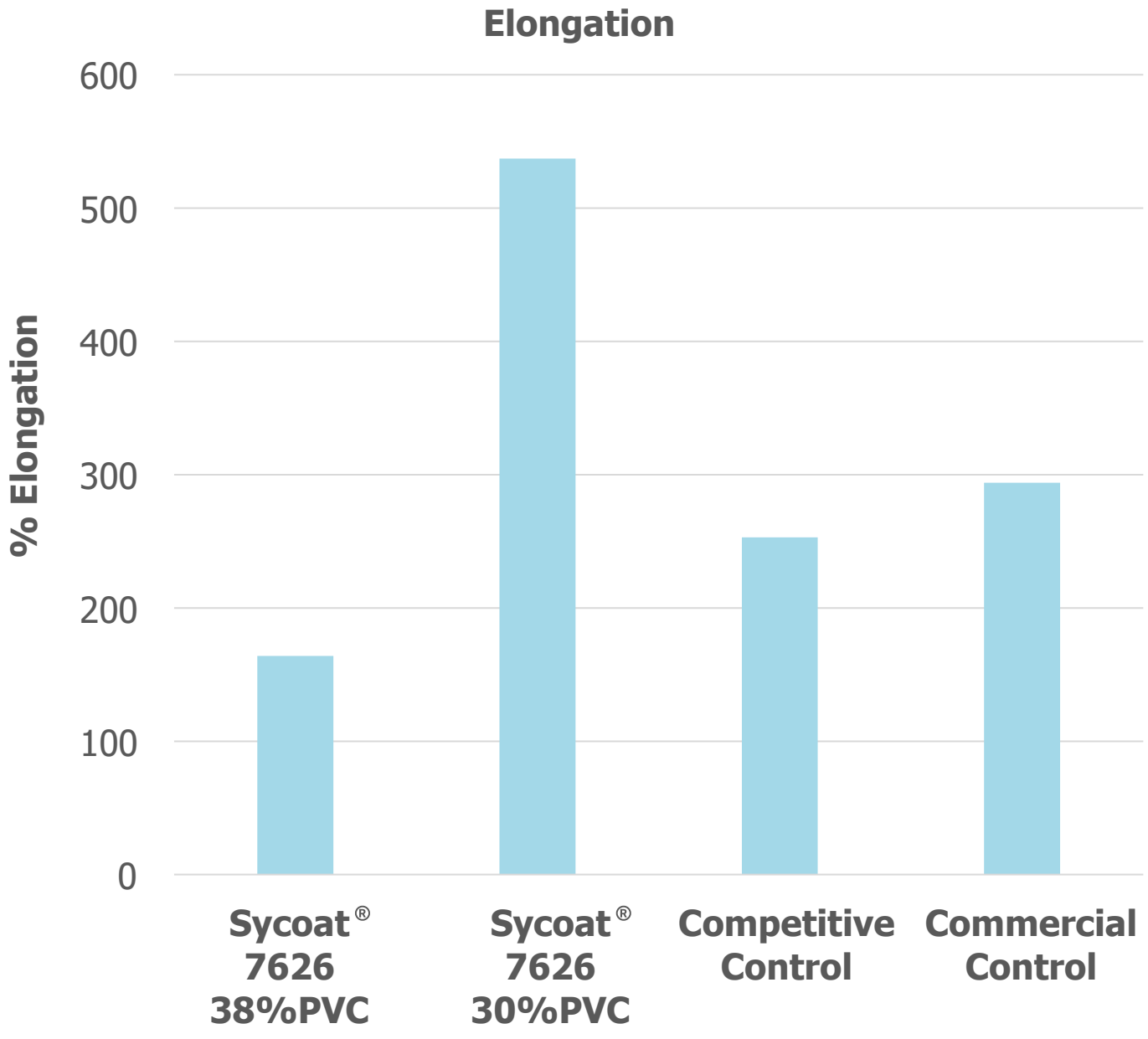

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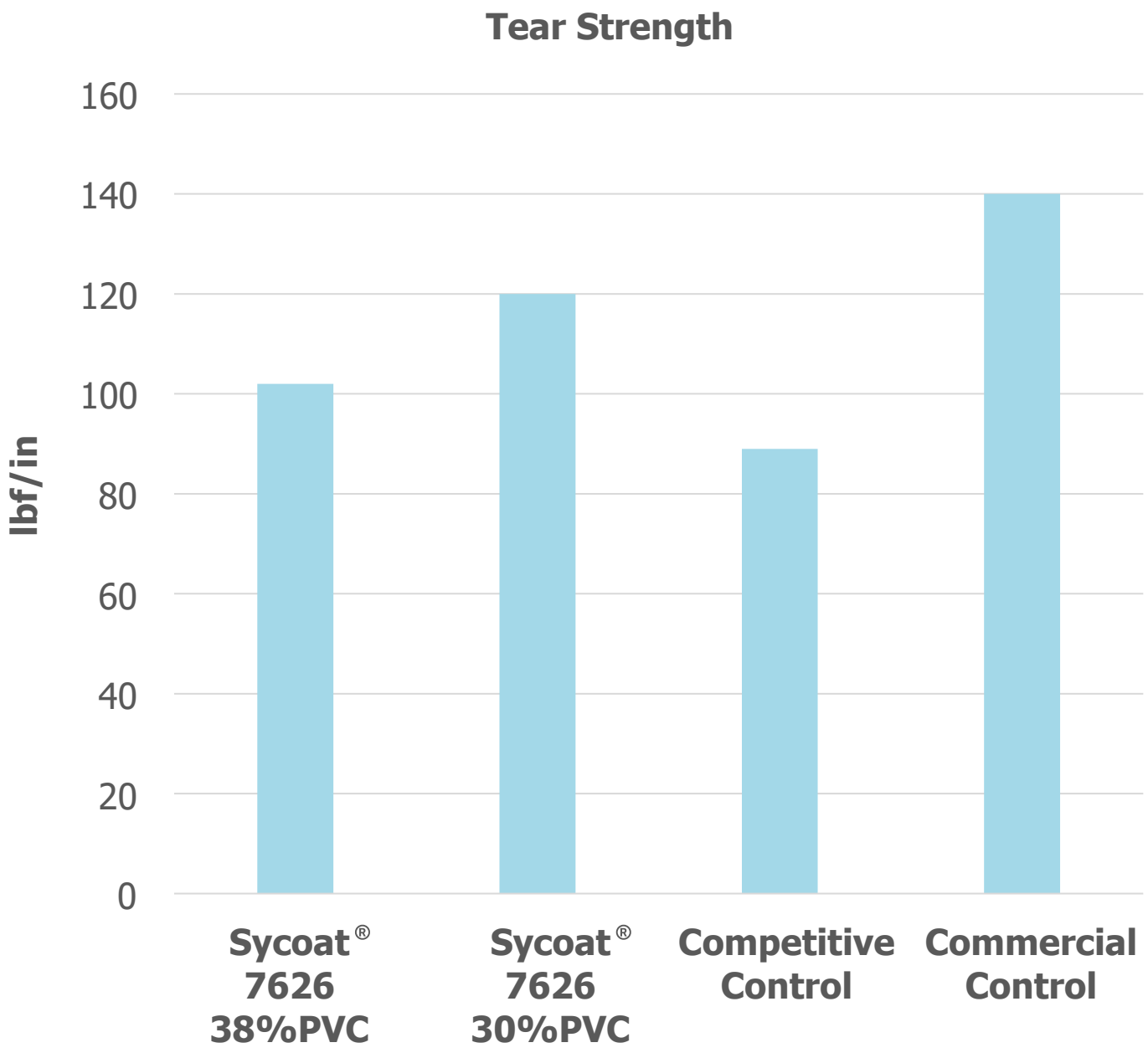
Two Pigment Volume Concentrations Evaluated



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Two Pigment Volume Concentrations Incorporating 15% Sycoat® 7650 a Urethane Acrylic

Pigment Grind		Pounds	Gallons	Pounds	Gallons
Water	Carrier	45.0	5.4	45.00	5.41
Propylene Glycol	Solvent	10.0	1.2	10.00	1.17
Natrosol 250 HBR	Thickener	1.5	0.2	1.50	0.15
Ammonium Hydroxide	Buffer	1.0	0.1	1.00	0.14
Tamol 165A	Dispersant	5.0	0.5	5.00	0.54
Sycoat®7650	Urethane Hybrid	236.0	27.8	276.12	32.48
KTPP	Dispersant	1.0	0.1	1.00	0.08
Surfynol DF58	Defoamer	2.0	0.3	2.00	0.28
Mix 5 minutes					
Ti-Pure R902	TiO2	124.0	3.7	102.92	3.09
Drikalite	Calcium Carbonate	355.0	15.7	294.65	13.05
Zinc Oxide	Extender	6.0	0.1	6.00	0.13
Acticide MV14	Preservative	1.0	0.1	1.00	0.11
Polyphase 663	Mildewcide	12.0	1.3	12.00	1.25
Totals		**799.5**	**56.5**	**758.19**	**57.88**
Let Down					
Sycoat®7626	**AA Binder**	360.0	40.8	421.20	47.75
Ammonium Hydroxide	Buffer	1.5	0.2	1.50	0.20
Surfynol DF58	Defoamer	1.0	0.1	1.00	0.14
Texanol	Solvent	4.0	0.5	4.00	0.50
Water	Carrier	14.5	1.7	14.50	1.74
Acrosol SCT 275	Thickener	4.0	0.4	4.00	0.44
Final Totals		**1186.5**	**100.3**	**1204.39**	**108.67**

PVC	37.6%	30.0%
WS	65.3%	61.5%
VS	52.7%	50.6%
# / gal	11.8	11.1

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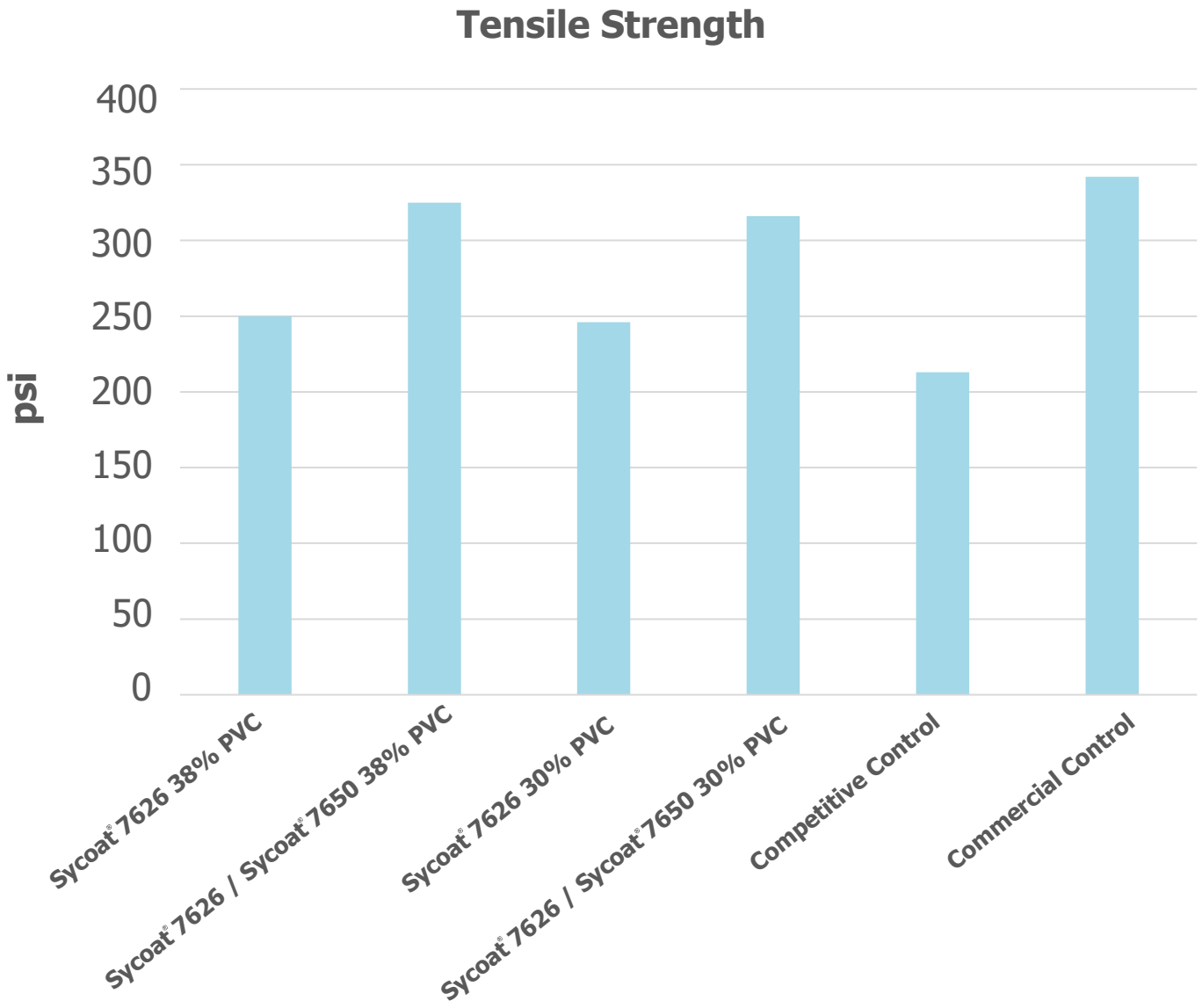
Highlighting Sycoat® 7626 with Sycoat® 7650 a Hybrid Urethane

Two Pigment Volume Concentrations Incorporating 15% Sycoat® 7650 a Urethane Acrylic



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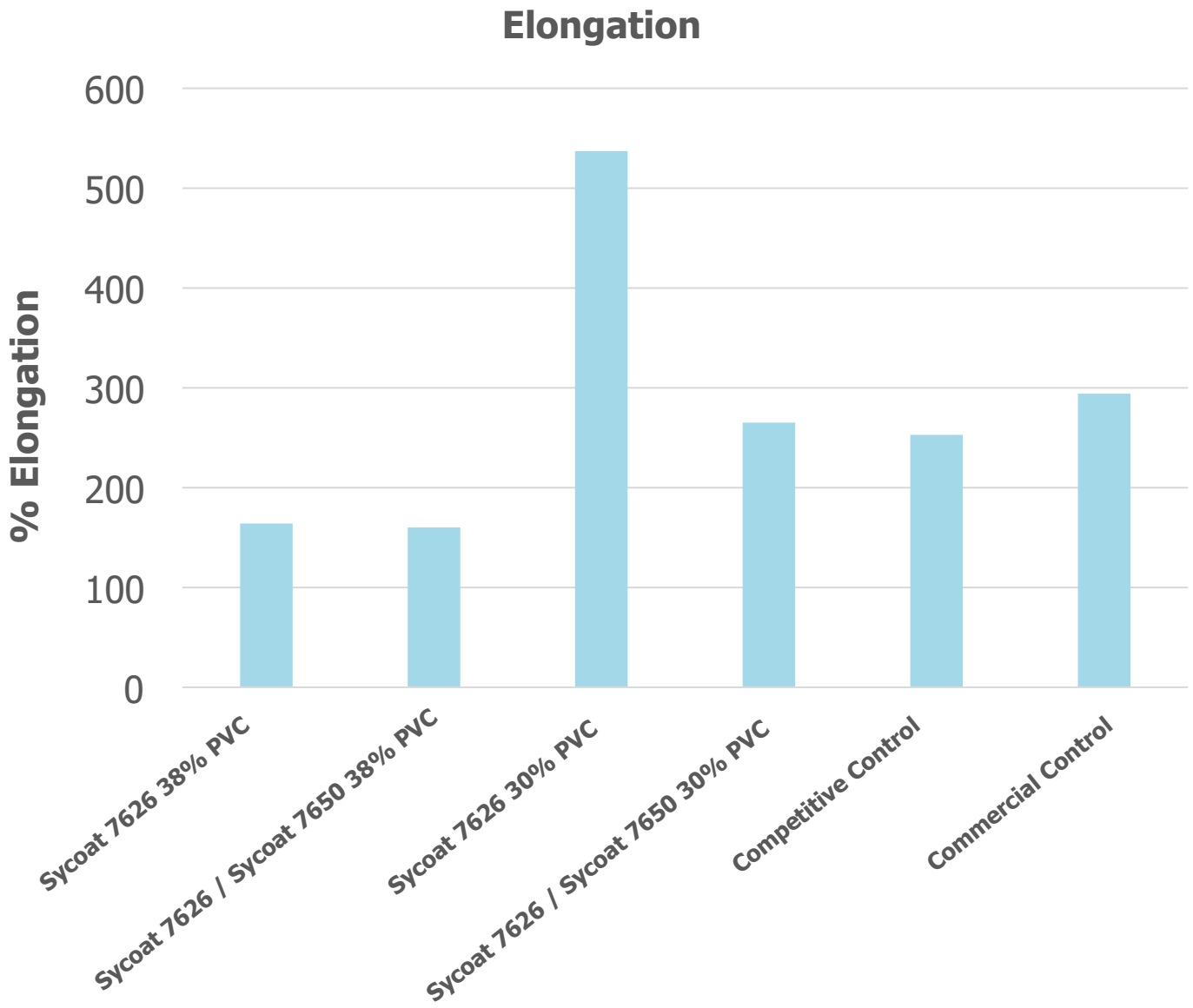
Highlighting Sycoat® 7626 with Sycoat® 7650 a Hybrid Urethane

Two Pigment Volume Concentrations Incorporating 15% Sycoat® 7650 a Urethane Acrylic



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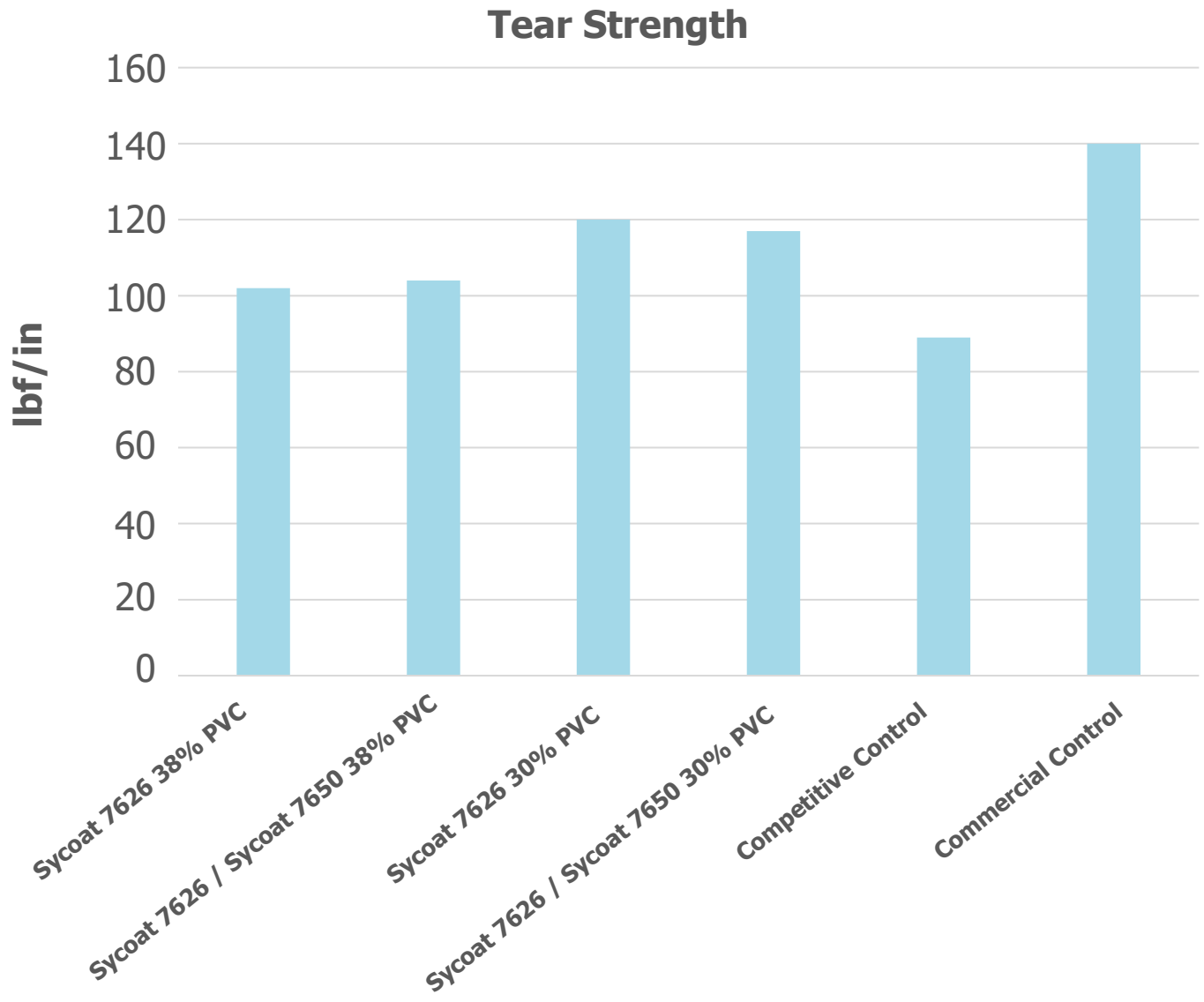
Highlighting Sycoat® 7626 with Sycoat® 7650 a Hybrid Urethane

Two Pigment Volume Concentrations Incorporating 15% Sycoat® 7650 a Urethane Acrylic



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Conclusion

Sycoat® 7626 is a high-performance elastomeric emulsion designed specifically for cool white roofing applications, delivering exceptional durability, flexibility, and compliance with **ASTM D6083** standards. When blended with our innovative urethane hybrid **Sycoat® 7650**, **Sycoat® 7626** demonstrates enhanced performance properties achieving the ultimate in durability.

While ongoing testing continues to validate **Sycoat® 7626**'s full potential, the synergy between **Sycoat® 7626** and **Sycoat® 7650** represents a forward-thinking solution for demanding roofing applications. This combination underscores our commitment to advancing product performance and meeting the evolving needs of our customers.