

NOVACRYLIC

SPORT SURFACES

Product Weight/Solid Comparison

Novasurface Acrylic Resurfacer-

100% acrylic emulsion. 50.25% acrylic solids. 10.8 lbs per gallon (VOC 97)

Plexipave Acrylic Resurfacer 26.7% acrylic solids 8.7-8.9 lbs per gallon

Sportmaster Acrylic Resurfacer 44% acrylic solids 8.5lbs per gallon

Novacrylic Combination Surface -

100% acrylic. 13.3 lbs per gallon and 69.43% solids.

Factory added pigment and texture for consistent finish. Rounded texture, 2x required QUV testing and 2x required Xenon Arc testing. No ammonia, low (VOC 55). Surface top coat of the Toronto Masters, Davis Cup Finals, Fed Cup Finals and NCAA Championships.

Plexichrome mixed with Plexipave Color Base to achieve fortified mix

55.25% solids and 12.15 lbs per gallon avg

Sportmaster Colorplus 100% acrylic. 9.59 lbs per gallon

Seal A Line

100% acrylic line primer to prevent bleed through 10.8 lbs per gallon (VOC 48)

Stripe Rite 100% acrylic. 8.9 lbs per gallon

Novatex textured white line paint. 100% acrylic. 14 lbs per gallon (VOC 48)

Sportmaster Textured Line Paint. 100% acrylic. 10.65 lbs per gallon

QUV Accelerated Weathering Test

All Novacrylic recreational coating systems have been tested for accelerated weathering using the QUV cabinet. QUV testing involves 1000 hours of concentrated UV light and moisture exposure. By cycling the moisture and light, it replicates some of the harshest conditions that lead to coating failure. The UV exposure influences the integrity of the acrylic binder, degrading the coating. Generally it is estimated that 1000 hours of QUV testing equates to 5-7 years of exterior exposure. The following Novacrylic coatings have undergone 2000 hours of QUV testing without any performance issues that would cause concerns about product degradation. Novasurface Acrylic Resurfacer, Novacoat Acrylic Topcoat, Novacrylic Combination Surface, Novacushion, Ultracushion, Novatex textured white line paint.

The coatings were applied to aluminum panels. The test panels were prepared in duplicate and allowed to dry one week prior to exposure. These panels were then placed in a QUV Accelerated weathering tester with QUV-A-340 bulbs that simulates accelerated noon daylight UV exposure. The QUV cabinet was operated using the standard ASTM G-154 for this type of equipment.

Key Results of 2000 hours of QUV testing: Very little visual change occurred to the panels during the exposure period. There was no loss of adhesion, no blistering, no wash-out of color, and the color retention numbers were excellent.

Conclusions: Based on 2000 hours of accelerated weathering that the Novacrylic coatings had been tested for, the overall performance of the coatings for color retention, blister resistance, and adhesion to the test panel was excellent.



The Dow Chemical Company
Midland, MI 48674
U.S.A.

October 2, 2015

Mr. David Commito
Nova Sports
6 Industrial Road
Building #2
Milford, MA 01757

XENON ARC TEST REPORT

Dear David:

Mr. David Commito of Nova Sports submitted nine (9) different colored samples for 2,000 hours ASTM G155 Xenon Arc accelerated weather testing. The nine color samples of 701, 702, 703, 704SB, 704, 709, 710, 711 and 712 had excellent color retention after 2,114 hours of Xenon Arc WOM exposures. The results are in the attached table.

Sincerely,

Stanley J. Pruskowski, Jr.
Customer Technical Service Manager
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Xenon Arc Testing (ASTM G155)

Xenon Arc (ASTM G155) Submitted alternative must pass a total of 2000 hours of Xenon Arc (simulated natural sunlight) testing with a total dE (total loss of color in %) value of less than 5% to demonstrate long term fade resistance of system.

Each 1000 hours of testing is equivalent to 12 months of Florida sunlight exposure. After two years of simulated Florida sunlight exposure 8 out of 9 standard Novacrylic colors have less than 2% total loss in color (making the color loss invisible to the naked eye.)

These are the highest color retention numbers for any standard acrylic sport surface on the market

	Paint	Color			Color			dE
		L*	a*	b*	dL*	da*	db*	
1	Nova Green	27.1	-6.7	5.4	0.7	-0.3	0.5	0.9
2	Classic Green	51.2	-13.5	11.2	0.5	-0.5	0.0	0.7
3	Grass Green	36.1	-14.6	15.3	1.2	-0.7	0.3	1.4
4	Blue	45.3	-12.3	-23.4	0.7	-0.7	2.6	2.8
5	Stadium Blue	23.5	-4.4	-15.2	0.3	-1.6	0.9	1.9
6	Terra Cotta	34.4	30.1	23.7	0.9	0.0	-0.1	1.0
7	Red	31.7	28.7	20.0	0.6	0.1	0.1	0.6
8	Sand	46.5	8.2	20.1	0.9	-0.1	-0.1	0.9
9	Burgundy	26.0	19.0	9.7	0.5	0.3	0.2	0.6

