

# A Guide To Quality All Weather Sport Surfaces



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In an effort to make your choice of color coating systems easier, we continue to present the **NOVACRYLIC** line in a unique format. We have attempted to make the literature as detailed and complete as possible and at the same time keep it simple and to the point.

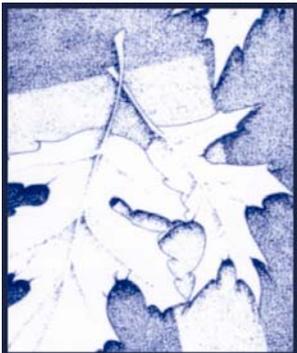
**NOVA SPORTS U.S.A.** welcomes the opportunity to serve you. Please feel free to contact me at our toll free number **1-800-USA-NOVA**, for any help or information you may need relating to recreational coatings.



Robert Righter, President  
Nova Sports U.S.A., Inc.



## ALL WEATHER RECREATIONAL SURFACE SYSTEMS



Nova Sports U.S.A. was created out of a desire to provide the acrylic surfacing industry with a superior product and excellent service. To this end, Nova Sports U.S.A. produces high performance acrylic coating systems for all types of recreational uses, as well as provides complete technical support to the owner, contractor and specifier. All Nova Sports products are environmentally friendly, they are asbestos free, mercury free and lead free.

NOVACRYLIC is the umbrella name for all the materials manufactured in the Novacrylic line which includes CP-761 Concrete Primer, Novabond, Novasurface, Novaplay Base Coat, Novacaulk, Novalevel, Novafil, Novacoat, Novacrylic Combination Surface, Novacushion, Ultracushion, Novaplay, Novaplay II, Novatrack, Novatex, Novaline Line Paint, and Seal-A-Line. Novacrylic is an all weather system designed for asphalt and concrete recreational surfaces. It's non-glare, non fading colors are unaffected by extremes in weather or by ultraviolet rays from the sun. The non-abrasive, no-slip surface is easier on the feet and legs, and tennis balls last longer. Texture can be adjusted to achieve whatever speed or ball bounce the owner wishes. Novacrylic surfacing systems are supplied in a full range of colors. Color materials for other pavements are also available. Please consult us for specific and/or unusual pavement coating needs.

Our surfacing systems are manufactured on the most modern equipment available...equipment designed specifically for Nova Sports U.S.A.. Novacrylic surfaces have undergone extensive testing and are the most stable and technically advanced acrylic surfaces on the market.

Our dedication to making every product in the Novacrylic line second to none in quality, performance and safety is your guarantee that choosing a Novacrylic system will result in your total satisfaction.

Nova Sports USA takes pride in providing the highest quality products and service. Even though our distribution is world wide, we are responsive to your needs. **It's all we do, we have to do it better.**

**Note:** Methods recommended are based on experience. Nova Sports U.S.A. cannot be responsible for job conditions nor quality of workmanship.

### WARRANTY

Nova Sports U.S.A. Inc. warrants its product to be of merchantable quality. Nova Sports U.S.A. Inc. expressly disclaims any other warranties of any kind or character, express or implied, which extend beyond the description of the face hereof. Nova Sports U.S.A. Inc. assumes no responsibility that its products will be fit for any particular purpose for which you may be buying these goods, except as otherwise provided herein..

In 1984, Benjamin Righter, former president of Truflex Recreation Coatings and his wife Ruth M. Righter, founded Nova Sports USA with the desire to manufacture the highest quality sport surfaces available anywhere. From the beginning, he was joined by his son, Jeffrey Righter, who managed production and developed innovative products that have modernized the tennis surfacing industry. Jeffrey also spent many hours in the field working with contractors, gathering data to develop a more user-friendly tennis surface. In 1984, Jeff invented Nova Combination Surface<sup>®</sup>, which revolutionized acrylic tennis surfacing. Nova Combination Surface was developed for one contractor in particular in Louisiana who wanted to improve upon the field-mix. It was introduced and made available in 1985. Also in 1984, working with Ben, Jeff created a two-step, elastomeric crack-repair system, known as Novacaulk<sup>®</sup>, which is now the industry standard for repairing small cracks.

Robert Righter joined his father and brother in 1995 and quickly assumed the Director of Marketing role. When Bill Righter came on board as Sales Manager in 1998, the family aspect of the business was complete. Jacob Righter is our current Director of Sales and is the third generation to the family business. The other members of our staff are like extended family, committed to customer service. As a result, we have many loyal customers.

A common misconception about our family-owned business is that we're small. On the contrary, Nova Sports USA is one of the largest manufacturers of acrylic sport surfaces in the world. One benefit our customers enjoy is that each person they speak to can resolve situations as they arise, rather than prolonging a solution by trying to track down a decision-maker.

Novacrylic<sup>®</sup> sport surfacing systems are 100% acrylic, non-hazardous materials for sports such as tennis, basketball, inline hockey, tracks and shuffleboard. Our surfaces are designed for indoor and outdoor use, over asphalt or concrete.

Nova Sports USA opened in Holliston, Massachusetts, and installed custom-designed manufacturing equipment, geared specifically for the production of acrylic sport surface materials. We have continued to expand and improve our facility, using the most modern equipment in the industry. In March 2001, Nova Sports USA moved its headquarters to a new facility in Milford, Massachusetts, and added new equipment to meet the growing sales.

Our goal of making every product in the Novacrylic line second to none in quality and performance is our guarantee. Choosing a Novacrylic system will result in your total satisfaction. We strive to produce the finest, safest acrylic sport surfaces in the world. Novacrylic tennis surface systems have been approved by the ITF Foundation for tournament play and classified as category two, medium play.

Nova Sports USA distributes its products through a network of tennis court builders worldwide. We are happy to answer any questions you may have regarding all-weather acrylic surfaces. Perhaps we can recommend a qualified builder in your area to apply our surfaces.

## IMPORTANCE OF PROPER ASPHALT PAVEMENT

Over the years, many tennis court surfaces have failed because of improper asphalt mix design. Often, tennis courts are paved with an asphalt mix that does not provide optimum pavement for the application of all weather color coatings. With this in mind, and Nova Sports' desire to assist the tennis court owner to achieve the highest quality tennis court surface possible, we are recommending the following asphalt surface course.

The final course of asphalt shall consist of a one inch thick mixture of asphalt and aggregate not to exceed 3/8 inch in size. This standard is as outlined by the United States Tennis Court and Track Builders Association.

The proper type asphalt used for the surface course will vary from state to state if using the standard norm of the Department of Transportation (DOT) or State Highway Department standards. Because of this potential to vary, the following is a mix design that will resemble more closely the methods and standards that have succeeded in providing quality facilities.

<b>Thickness:</b>	Not less than one inch
<b>Liquid Asphalt or Bitumen:</b>	5.5% by weight (+/- .5%)
<b>Asphalt Penetration or Type:</b>	AC10 (or 120-150 Penetration) AC20 (or 85-100 Penetration)
<b>Aggregate Type:</b>	Crushed stone, gravel, shale, limestone, etc. Slag is acceptable unless other materials can not be obtained. Only Blast furnace slag is acceptable in this case
<b>Aggregate Sieve Analysis</b>	Percent Passing
<b>1/2 - inch</b>	100%
<b>3/8 - inch</b>	70-80
<b>1/4 - inch</b>	60-80
<b>No. 4</b>	60-70
<b>No. 8</b>	50-70
<b>No. 12</b>	40-70
<b>No. 16</b>	30-50
<b>No. 30</b>	20-40
<b>No. 50</b>	20-30
<b>No. 100</b>	10-20
<b>No. 200</b>	0-04
<b>Washed</b>	0-02
<b>Installation Temperature:</b>	280-300°F
<b>Installation Equipment:</b>	Self propelled paving machine with vibratory screed.
<b>Rolling:</b>	Not less than 3-5 ton tandem steel wheel roller with working water system.
<b>Finish Rolling:</b>	Not less than 1-ton tandem steel wheel finish roller.
<b>Flood Check:</b>	The court surface should be flooded with water and allowed to drain for one hour at 70°F. If there is any remaining water that covers a 5 cent piece (American coin), that area, commonly called a "birdbath", should be patched and leveled. If the standing water does not cover a 5 cent piece, it is considered within tolerance and will evaporate within a reasonable time. Reflooding and patching may be necessary until birdbaths are properly minimized.

The above standards conform or exceed those of the ASBA and the USTA for hot plant mix tennis court construction.



## NEW WORK:



Checking for "birdbaths"

New asphalt pavement must be completely cured (minimum of 14 days, ideally 30 days, of warm, dry weather, longer if cold or damp), prior to application of any **NOVACRYLIC** surface. Pavement needs to be clean and free of all foreign matter such as oil, grease, dirt and other debris. Use high pressure water, air broom or hand sweep to clean pavement. Removal of grease and oil requires the use of a strong detergent. After using detergents, it is important to completely flush the surface with water. If oil or grease has softened the pavement, it is necessary to remove the damaged asphalt and repair it with a suitable patch.

Once the surface is clean, check the pavement for "birdbaths" by flooding it with water. Allow court to drain for one hour at 70°F. If there is any remaining water that covers a 5 cent piece (American coin), that area should be outlined with chalk and filled with a patch mix based on **NOVABOND** (pp 10). If the standing water does not cover a 5 cent piece, it is considered within tolerance and will evaporate within a reasonable time. Allow patches to cure completely before coatings are applied. Reflooding and patching may be necessary until birdbaths are properly minimized. Surface is now ready for application of Novacrylic coating.

### IMPORTANT:

Do not mix more material than will be used in 45 minutes.

## RESURFACING:

- It is imperative to scrape off any old coatings that may be flaking or peeling.
- Check for "birdbaths" by flooding the surface and make any corrections as in new work procedure. Minor cracks must be cleaned out and repaired with **NOVACAULK** (pp 13). or other suitable crack repair material.
- Surface must be clean and free of all dirt and other foreign matter before the application of any coatings.
- Use a solution of 1-cup of HTH or similar chlorine and 1 Tablespoon liquid hand detergent to 1 gallon of hot water to wash away mold, fungus and mildew. Apply a liberal amount of solution to the surface with a deck type scrub-brush, allow this to remain on the surface for 5 minutes, scrub briskly with brush, then flush completely with water. When all repairs are completed and surface has been cleaned, the pavement is ready for coating to be applied.

## NEW WORK:



Cleaning / filling cracks

New concrete slab must be constructed with a vapor barrier under the slab. Finish should be medium broom. Texture should be at least as coarse as medium sandpaper. New concrete must cure a minimum of 30 days prior to application of coatings. Apply a slurry coat of: 2.5 gallons **NOVABOND**, 200 lbs clean sand, 1 bag (94 lbs) Portland cement and 5 gallons clean water. **When the slurry is dry, wash the surface with a mild solution of phosphoric acid (approx. 1 part acid to 8 parts water).**

Once the surface is clean, check the pavement for “birdbaths” by flooding it with water. Allow court to drain for one hour at 70°F. If there is any remaining water that covers a 5 cent piece (American coin), that area should be outlined with chalk and filled with a concrete repair mix. If the standing water does not cover a 5 cent piece, it is considered within tolerance and will evaporate within a reasonable time. Equal parts dilution of Novabond and water should be used in place of water in the concrete patch mix. Dampen the area to be repaired with water and spread the Novabond/concrete mixture into the depression. After the patch mix has attained an initial set, trowel or broom the patch so that it is even and feathers into the adjacent surface. Allow the patch to dry overnight prior to application of coatings. Allow patches to cure completely before coatings are applied. Reflooding and patching may be necessary until birdbaths are properly minimized. Surface is now ready for application of Novacrylic coating.

### IMPORTANT:

**Do not mix more material than will be used in 30 minutes.**

**ALTERNATE METHOD 1 :** Apply one coat of Nova Water Based Epoxy broadcasting Silica sand on the wet epoxy. Application may be with a roller or squeegee. Apply Novacrylic surface system within 72 hours after application of Water Based Epoxy. This method is best if there are potential vapor issues in the concrete.

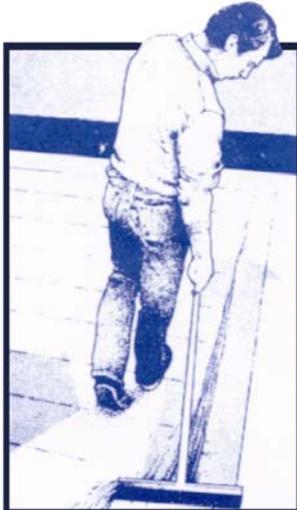
## RESURFACING:

**ALTERNATE METHOD 2 :** Etch concrete with a mild solution of **Phosphoric Acid**. Rinse away acid residue and apply a coat of CP-761 Concrete Primer diluted 1 part CP-761 to 1 part water. Application may be with squeegee, broom or roller. Allow CP-761 to dry completely. Apply a coat of Novasurface Acrylic Resurfacer.

Existing courts should be cleaned in the same manner as described in the section on resurfacing asphalt tennis courts. Those areas that are bare concrete should be treated with CP-761 in the same manner as new concrete. “Birdbaths” should be identified and treated in the same way as “birdbaths” found in new concrete construction. Pavement must be clean. Dirt and all other foreign matter must be removed prior to the application of coatings. Wash any surface area having mildew, mold or fungus with a solution of 1-cup HTH or similar chlorine to 1-gallon hot water. Apply the solution to the surface with a deck type scrub brush. Let the solution stand for at least 5 minutes. Scrub vigorously with the brush then flush completely with clean water. Surface should be scraped or washed with a high pressure water washer. Any coating that is loose or flaky must be removed. If bare concrete is exposed, treat with CP-761. When preparation is complete, proceed with application of **Novacrylic** coatings.

**NEW WORK:**

Applying surface



Applying surface

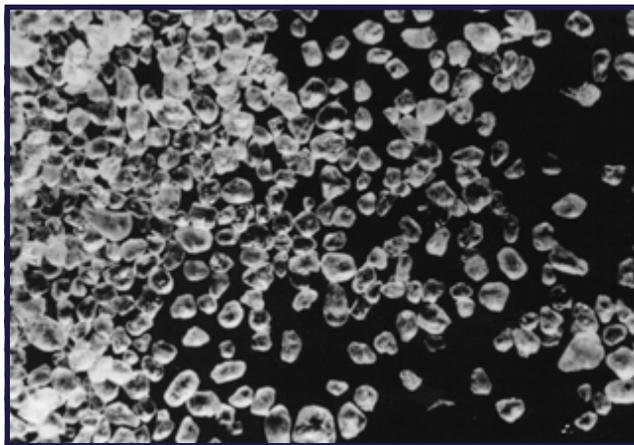
The method for applying the following **NOVACRYLIC** products is the same for every surface: Novafil, Novacoat, Combination, Novacushion, Ultracushion, Novasurface, Novacourt, Novaplay I & II, and Novabond. All are poured onto the surface and spread with a squeegee. Please refer to individual product data sheets for dilution instructions.

The surface must be clean (as described in the preparation instructions). Mix the coating according to the directions outlined in the description of each product in section 3. Pour a windrow along the length of one edge of the pavement to be coated. Using a rubber blade squeegee, insert approximately 1/3 of the width of the blade into the windrow, angle it so to "plow" the windrow further onto the pavement, pull the squeegee the length of the pavement. Upon reaching the end, reverse direction and repeat the procedure. This procedure should be repeated until the entire surface is covered. It's important to keep adding fresh coating to the windrow. Do not let the windrow run dry. When adding material to the windrow, care should be taken to work the fresh coating in with the older material. Do not stop for extended periods of time nor take breaks until the coat being applied is complete. **DO NOT** stop to repair "holidays" or try to correct mistakes that were made on previous passes. These can best be corrected after the coat being applied is dry. Most **NOVACRYLIC** coatings will be part of a multiple coat system. After each coat is dry, inspect the entire surface. Scrape and remove any excess material or foreign matter. If necessary, touch up any repairs. Except for the final coat, most defects will be corrected by the application of the next coat.

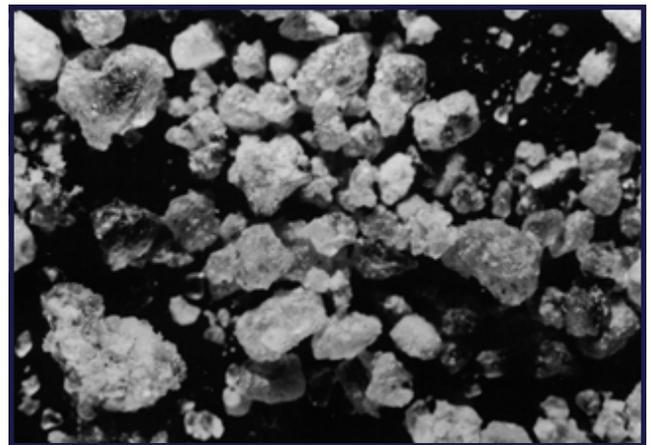
**MINIMUM APPLICATION TEMPERATURE IS 50°F AND RISING**

**IMPORTANT:** All **NOVACRYLIC** coatings are water-borne and cannot cure in cold temperatures or when subjected to moisture. Care should be taken not to apply coatings when rain is forecast or sudden drop of temperature is expected. Climactic conditions such as very cool evenings and high dew points dictate that work should be completed early in the day so the coatings can be exposed to enough warm sunlight to form a film before sunset. The opposite applies during times of high heat, low humidity and drying breezes. Under these conditions, work very early in the morning or very late in the day. If the product seems to be drying too fast in hot weather, mist the pavement with water to make the application easier. **Care must be taken to allow each application to dry thoroughly prior to recoating.** Tools and equipment should be cleaned with soap and water soon after use.

CATEGORY	PRODUCT	DESCRIPTION	PAGE
Preparation and repair products	CP-761 OR WATER BASED EPOXY	Concrete primers	9-9A
	NOVABOND	Patch and concrete slurry emulsion	10
	NOVASURFACE	Acrylic resurfacer	11
	NOVAPLAY BASE COAT	Acrylic resurfacer, super strength	12
	NOVACAULK	Crack Filler	13
	NOVALEVEL	Leveling compound	14
Tennis surfaces	NOVAFIL	Acrylic texture, sand filled	15
	NOVACOAT	Acrylic topcoat	16
	COMBINATION SURFACE	Acrylic textured surface	17
	NOVACUSHION	Rubber Filled Acrylic Cushion	18
	ULTRACUSHION	Rubber Filled Acrylic Cushion, Premium	19
Multi-sport surfaces	NOVAPLAY	Basketball & playground coating, heavy duty	20
	NOVAPLAY II	In-line skating surface	21
Track	NOVATRACK	Track surface, rubber filled	22
Lines and markings	NOVATEX	Line paint, textured	23
	NOVALINE LINE PAINT	Line paint, non-textured	24
	SEAL-A-LINE	Line primer	25



Magnification (x32) of the non-angular smooth sand crystals used in all Novacrylic textured products



Magnification (x32) of the sharp angular edges found in ordinary sand

**NOVAPOXY** is a unique 2 part water based epoxy designed to control vapor and moisture on concrete and has excellent bond to Novacrylic surface systems. Novapoxy reduces the passage of water vapor on concrete slabs and will improve the adhesion of acrylic coatings to concrete.

**Novapoxy Advantages:**

- Low Voc < 1 g/ l and no odor for indoor and outdoor use
- Water based for easy clean up
- High Moisture tolerance
- Compatible with all Novacrylic surface systems
- Does not support mold
- Easy to Install by either floor roller or neoprene rubber squeegee

<b>DILUTION</b>	Mix part A with part B well with Jiffy blade for three minutes
<b>SPREADING RATE</b>	200 - 250 sq. ft. per gallon, per coat using medium nap floor roller
<b>COLOR</b>	Black
<b>PACKAGED QUANTITY</b>	2.5 gallon kit
<b>WEIGHT</b>	15 lbs. per gallon
<b>Minimum Application Temperature is 50°F and rising. Application is with either roller, Neoprene rubber squeegee, or spray Water Based Epoxy is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b>	

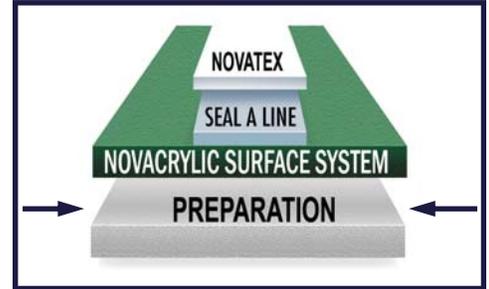
\*\*\* The first coat of acrylic must be applied to the water based epoxy within 72 hours.

CP-761 is an acrylic polymer emulsion that offers an alternative method to the Novabond slurry method of surfacing bare concrete. When used over clean concrete, CP-761 will improve bond of acrylic coatings to concrete.

Allow CP-761 to dry completely before next application of Novacrylic surface system.

**NEW CONCRETE MUST:**

- Have vapor barrier under the slab
- Have medium broom finish
- Contain no curing agents
- Cured for 30 days
- Be etched with phosphoric acid wash
- Be prepared as instructed on **page 6**, "Preparation Concrete"



<b>DILUTION</b>	Equal parts CP-761 and water
<b>SPREADING RATE</b>	0.036 - 0.045 gallons per sq. yd., per coat 200 - 250 sq. ft. per gallon, per coat
<b>COLOR</b>	Milky white liquid / clear when dry
<b>PACKAGED QUANTITY</b>	5 gallon pail, 30 gallon drum, 55 gallon drum
<b>WEIGHT</b>	10 lbs per gallon
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with either roller, Neoprene rubber squeegee, or spray</b>  <b>CP-761 is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



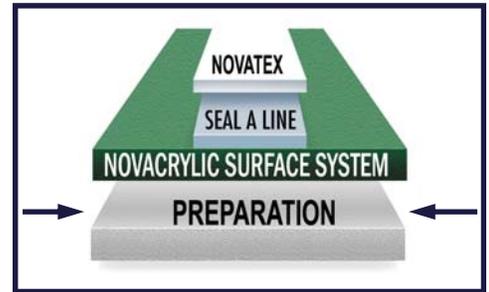
PROTECT FROM HEAT



DO NOT FREEZE



**NOVABOND** is an acrylic polymer emulsion developed for the purpose of improving the bonding of Novacrylic surface systems to uncoated concrete pavements. When used in a mixture of Portland cement, sand and water, and then applied to clean concrete in slurry form, Novabond casts a film of acrylic-concrete over the pavement. This acrylic-concrete coating has excellent adhesive characteristics to both concrete and acrylic coatings. While the Novabond slurry coat acts as a laminating agent, and bonds the entire surfacing system together, it also fills some voids, leaving a more uniform surface to apply the Novacrylic coating system.



Novabond can also be used as an additive to concrete mixes in place of some of the water. This addition of Novabond dramatically increases the strength and adhesion properties of the concrete, especially in patches and thin applications.

When used as the binder for a patch mix, Novabond will improve the performance of the repair.

<b>DILUTION: Slurry for concrete</b>	2.5 gallons NOVABOND, 200 lb sand (50-60 mesh) plus 1/94 lb. Bag Type 1 Portland cement plus 5 gallons water. Above mix covers 1800 sq. ft.
<b>DILUTION: Concrete Patch</b>	Dilute equal parts of Novabond and water. Use diluted NOVABOND in place of water in prepared concrete patch mix (example "Sakrete") or in 1-part Portland cement to 2 or 3 parts sand, add liquid until desired consistency is obtained.
<b>DILUTION: Acrylic Patch mix for Asphalt Primer Equal parts Novabond and Water</b>	Dry mix 100 lb sand with 1.5 gallons (20 lb) Portland cement. Add undiluted NOVABOND to achieve the consistency desired. For deep patches, use coarse sand. Very deep patches, add some small stone. Prime area prior to patching.
<b>COLOR</b>	Milky white
<b>PACKAGED QUANTITY</b>	5 gallon pail, 30 gallon drum, 55 gallon drum
<b>WEIGHT</b>	10 lbs per gallon

**Novabond concrete mixes must cure 24-hours before application of Novacrylic surface system.  
DO NOT mix more than will be used in 30 minutes.  
Minimum Application Temperature is 50°F and rising.  
Novabond is not hazardous\* and is free of lead, mercury, asbestos and formaldehyde.**

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT



DO NOT FREEZE



**NOVASURFACE** is 100% acrylic concentrate to be blended with sand and water at the jobsite. It is used as a resurfacer for pavement prior to the application of acrylic color surfacing systems. The sand filled mixture is squeegeed over the surface to fill voids and hide the profile of aggregates in the pavement. The use of Novasurface over an open or porous asphalt mix will seal the pavement, make it smoother and increase the yield of subsequent Novacrylic color materials.

Novasurface may be applied over uncoated concrete only after priming with CP-761 Concrete Primer.



Unlike asphalt emulsion resurfacers, Novasurface does not deteriorate with age. It is resistant to water and does not have to be rolled after application. Another advantage is the easy wash up and cleaning of tools with water.

<b>DILUTION: Resurfacer</b>	2 parts NOVASURFACE to 1 part water Add 10 - 15 lb sand (50-60 mesh) per gallon of NOVASURFACE
<b>SPREADING RATE</b>	0.06 - 0.10 gallons per sq. yd., per coat 90 - 150 sq. ft. per gallon, per coat
<b>CRACK FILLER</b>	Add sand to undiluted NOVASURFACE until consistency of putty
<b>COLOR</b>	Dark grey
<b>PACKAGED QUANTITY</b>	5 gallon pail, 30 gallon drum, 55 gallon drum
<b>WEIGHT</b>	10.8 lbs per gallon
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with a neoprene rubber squeegee as described on page 7.</b>  <b>NOVASURFACE is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



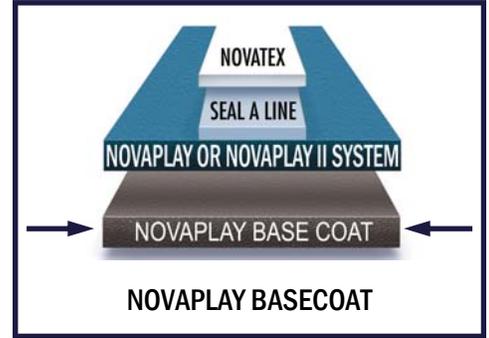
PROTECT FROM HEAT



DO NOT FREEZE



**NOVAPLAY BASE COAT** is a heavy duty acrylic resurfacer. It is designed to provide a high performance base coat for use under surface systems such as Novaplay and Novaplay II. This product is a reinforced version of Novasurface. When used on pavements designed for rollerblade skating or other severe traffic, it adds to the durability of the entire surfacing system. Novaplay Base Coat fills and smoothes the pavement as Novasurface does, and adds toughness to the surface.



<b>DILUTION</b>	2 parts NOVAPLAY BASE COAT to 1 part water Add 10-15 lb sand (80-100 mesh) per gal of NOVAPLAY BASE COAT
<b>SPREADING RATE</b>	0.06 - 0.10 gallons per sq. yd., per coat 90 - 150 sq. ft. per gallon, per coat
<b>COLOR</b>	Dark grey
<b>PACKAGED QUANTITY</b>	5 gallon pail, 30 gallon drum, 55 gallon drum
<b>WEIGHT</b>	10.8 lbs per gallon
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with a neoprene rubber squeegee as described on page 7.</b>  <b>NOVAPLAY BASE COAT is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT



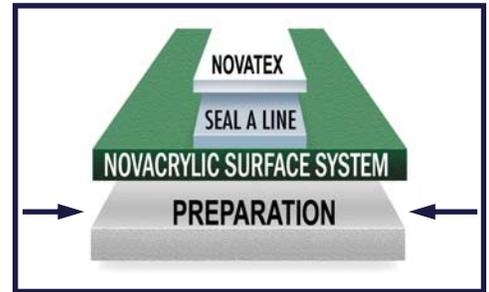
DO NOT FREEZE



**NOVACAULK** crack repair system consists of two acrylic crack repair products:

**NOVACAULK #1** is designed to be placed into the crack and fill the void. It has elastic properties and will adhere to the sides of a crack when the pavement moves. Novacaulk #1 has extraordinary elongation and memory.

**NOVACAULK #2** has the same properties as Novacaulk #1, plus it has been fortified with unique fibers so that when cured, the resultant film actually becomes a non-woven fabric. This feature makes it especially suited for treating cracks on



The Novacaulk system will tolerate movement of the pavement on both sides of a crack. As a crack becomes wider, the Novacaulk repair will actually elongate and the top layer acts as a bridge over the crack. Conversely, as a crack closes, the elastic properties of this system allow the entire crack repair to close with it.

**ADVANTAGES OF NOVACAULK:**

Ease of Application - No mixing - Becomes Water Resistant Quickly - Provides Ideal Base for Novacrylic Coatings - Water Clean-up - Remains Elastic - Durable - Permanent

**APPLICATION:**

1. Clean crack so that it is free of all vegetation and debris. Remove all lost pavement from crack.
2. Install backer rod (must be wider than crack) into crack, top of rod 3/16" below surface or fill crack with clean sand to within 3/16" of surface
3. Using a broad knife, squeegee rubber, or similar tool, fill crack to refusal with Novacaulk #1. It is important to exert some pressure when placing the Novacaulk into the void so that the material comes in contact with the walls of the crack.
4. Allow the Novacaulk to set. (4 hours during ideal drying conditions - longer when damp or cool).
5. Apply a coat of Novacaulk #2 over the crack. This coat should be thicker directly over the crack and taper to a feather edge. This application should be wider than the actual crack by 3 to 6 inches on both sides. Extremely wide cracks may need a second application of Novacaulk #2 and probably the repair should extend further out to the side. Novacaulk #2 is easily spread with a squeegee when first placed on the pavement. If, after a few minutes, it becomes difficult to spread smoothly, sprinkle a few drops of water over the repair. This will make the material easier to smooth.
6. Allow repair to dry and coat with Novacrylic color system of your choice.

**NOTE:** Nova Sports USA does not guarantee the results of any repairs using these products.

Cracking of pavement is caused by many factors, most of which are not on the surface of the pavement. Because of this, Nova Sports USA does not represent the Novacaulk system as a cure-all for cracked tennis courts. However, we feel that these products have gone a step beyond what has been available until now, in both methods and expected performance. Most minor cracks treated with this method should never appear again. Some major cracks will be permanently repaired, and some of them will reappear, but as smaller, less troublesome cracks. We expect that the use of these products will enable owners to use existing cracked tennis courts that would otherwise have to be ripped out or treated with a more costly overlay type of repair.

<b>DILUTION</b>	Use NOVACAULK undiluted
<b>SPREADING RATE</b>	70 linear feet per gallon, per coat
<b>COLOR</b>	Grass Green, Neutral, Nova Green, Red
<b>PACKAGED QUANTITY</b>	1 gallon pail, 5 gallon pail / NOVACAULK #1 also available in 10 oz. caulking tube
<b>WEIGHT</b>	12 lbs per gallon
<b>Minimum Application Temperature is 50°F and rising. NOVACAULK is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



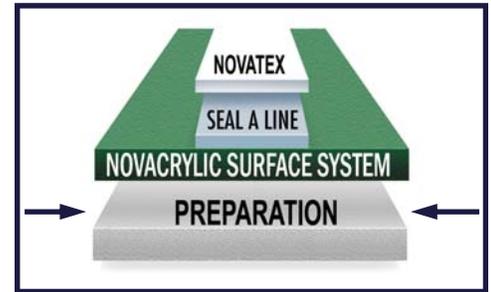
PROTECT FROM HEAT



DO NOT FREEZE



**Novalevel** is an acrylic paste that is designed for patching and correcting defects in asphalt tennis courts and other pavements. Novalevel is easy to use. This acrylic court repair material is supplied in a ready-to-use paste form. It has the consistency of mortar. Because of the high solids content, Novalevel is extremely resistant to shrinkage. The combination of binders, fillers, and high grade acrylic emulsion used in this formula, make it an ideal product to use for correcting defects such as birdbaths, minor cracks and gouges in tennis court surfaces. Repairing deep depressions requires multiple applications of Novalevel, not to exceed 3/16" per application.



Place Novalevel directly in the depression. Use a straight edge or squeegee and spread the Novalevel across the depression so it completely fills the depression and meets the level of the adjacent surface. After the patch has taken the initial set, sprinkle a small amount of water over the patch and smooth with a trowel or broom. Using a damp brush, similar to a whitewash brush, gently brush the edges and feather the material into the adjacent surface.

**Allow Novalevel to dry a minimum of 24-hours prior to application of Novacrylic surface coating.**

Minor gouges such as racket dings may be repaired merely by placing the Novalevel into the depression with a putty knife and smoothing it over. After it has begun to set, brushing with a damp brush will help to blend the patch into the adjacent surface.

<b>DILUTION</b>	Use NOVALEVEL undiluted
<b>SPREADING RATE</b>	Varies depending on depth and width of area to be repaired
<b>DRY TIME</b>	Minimum 24 hours
<b>COLOR</b>	Neutral, Grass Green, Nova Green, Red
<b>PACKAGED QUANTITY</b>	5 gallon pail
<b>WEIGHT</b>	14 lbs per gallon
<p><b>Minimum Application Temperature is 50°F and rising.</b>                  Repairing deep depressions requires multiple applications of Novalevel, not to exceed 3/16" per application.                  NOVALEVEL is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT



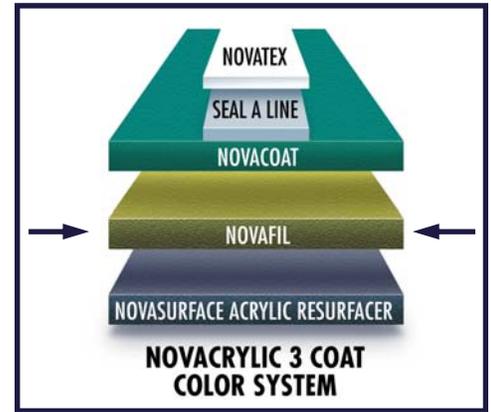
DO NOT FREEZE



**NOVAFIL** is a sand filled acrylic textured coat designed for use on all-weather tennis courts. This coating has a non-slip texture with a unique low abrasive feature that makes playing on a Novacrylic surface easier on players and tennis balls. Because the aggregates used in this product are non-angular, the sharp edges found in ordinary sand are not present. This allows us to produce maximum texture with minimum abrasion. The reduction in abrasion means that the playing surfaces will not be “sticky”. A surface having these features is more comfortable and less tiresome than other acrylics to play on. Injuries such as shin-splints and “monkey muscle” problems are lessened and tennis balls and shoes last longer.

Novafil hides the profile of the aggregates used in the pavement, fills minor voids, and leaves a uniform surface for the application of Novacoat.

- Novafil is supplied as a concentrate and must be diluted prior to use.
- Novafil is designed to be used as a base coat for Novacoat as described in Appendix A, 3-coat color system



<b>DILUTION</b>	2 Parts NOVAFIL to 1 part water
<b>COLORS</b>	Grass Green, Neutral, Nova Green, Red
<b>SPREADING RATE</b>	0.037 - 0.075 gallons per sq. yd., per coat 120 - 260 sq. ft. per gallon, per coat
<b>PACKAGED QUANTITY</b>	30 gallon drum
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with a neoprene rubber squeegee as described on page 7.</b>  <b>Novafil is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT



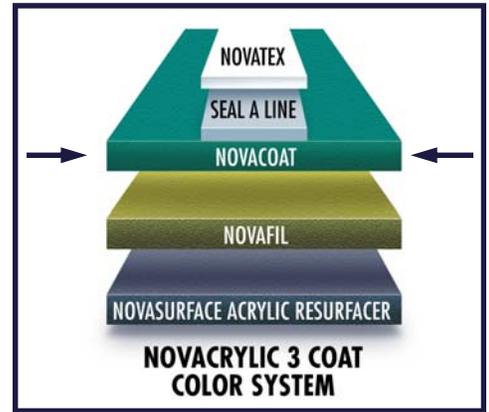
DO NOT FREEZE



**NOVACOAT** is a high solid 100% acrylic topcoat. It provides the wearing surface for all the Novacrylic tennis court coating systems. This final coat is formulated with the highest quality color pigments and acrylic binders to ensure permanent non-fading court surfaces. Novacoat reduces glare and lowers the surface temperature of the pavement.

As a finish, Novacoat will look attractive for many years (5-8 years, depending on quality of housekeeping, between recoating) with a minimum amount of maintenance. Outdoor courts should be kept free of dirt, sand, etc. In most locations, normal rainfall and occasional sweeping or air-brooming is all the maintenance required. Indoor courts should be vacuumed regularly. Most stains such as soft drinks, beer, citrus juices, blood, bird droppings and atmospheric dropout are easily removed simply by flushing the surface with water.

Novacoat is supplied as a concentrate and is diluted with water at the jobsite. When special requirements relating to the playing speed of the court arise, the speed can be adjusted by blending Novacoat with Novafil in various proportions to suit the desires of the owner.



<b>DILUTION</b>	Equal parts water and NOVACOAT
<b>COLORS</b>	Blue, Stadium Blue, Burgundy, Canadian Violet, Classic Green, Grass Green, Grey, Nova Green, Red, Sand Dune, Terra-cotta
<b>SPREADING RATE</b>	0.032 - 0.06 gallons per sq. yd., per coat 150 - 275 sq. ft. per gallon, per coat
<b>PACKAGED QUANTITY</b>	5 gallon pail, 30 gallon drum, 55 gallon drum
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with a neoprene rubber squeegee as described on page 7.</b>  <b>Novacoat is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT



DO NOT FREEZE



**NOVACRYLIC COMBINATION SURFACE** is a factory mixed blend of Novacoat and Novafil supplied in a concentrated form so that only water need be added prior to application on asphalt or Portland cement tennis courts. This product is used both for new and recoat work.

**NOVA SPORTS USA** began manufacturing this product upon request from contractors who wanted a blend of texture and topcoat, which would require only the addition of water at the jobsite. Now the only decision to be made by the technicians doing the applications is: "How much water do I add?". In actual practice, using NOVACRYLIC COMBINATION SURFACE makes ordering and shipping materials to the jobsite much simpler. The main concern becomes: how many courts, how many coats and what color is specified.



NOVACRYLIC COMBINATION SURFACE makes applications simpler. Contractors achieve better looking courts than they were getting using other materials **and** they were doing it at no more material cost! In some cases, lower labor costs and less loss through wasted materials. Almost without exception, every contractor who has tried "Combo" has converted to this system.

This coating has a non-slip texture with a unique low abrasive feature that makes playing on a Novacrylic surface easier on players and tennis balls. Because the aggregates used in this product are non-angular, the sharp edges found in ordinary sand are not present. This allows us to produce maximum texture with minimum abrasion. The reduction in abrasion means that the playing surfaces will not be "sticky". A surface having these features is more comfortable and less tiresome than other acrylics to play on. Injuries such as shin-splints and "monkey muscle" problems are lessened and tennis balls and shoes last longer.

<b>DILUTION</b>	Minimum of 15-Gal water up to 21-Gal water to 30-Gal of Combination coating
<b>COLORS</b>	Blue, Burgundy, Classic Green, Grass Green, Grey, Novagreen, Red, Sand Dune, Stadium Blue, Terra Cotta
<b>TYPICAL APPLICATION</b>	2 or 3 coats Combination surface
<b>RECOATING</b>	2 Coats Combination surface
<b>NEW WORK</b>	(optional) 1 coat Novasurface acrylic resurfacer 2 or 3 coats Combination surface
<b>SPREADING RATE</b>	0.047 - 0.056 gallons per sq. yd., per coat 160 - 190 sq. ft. per gallon, per coat 1 court (60' x 120') requires 80-100 gallons for two coats
<b>PACKAGED QUANTITY</b>	5 gallon pail, 30 gallon drum, 275 gallon tote
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with a neoprene rubber squeegee as described on page 7.</b>  <b>Novacrylic Combination Surface is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



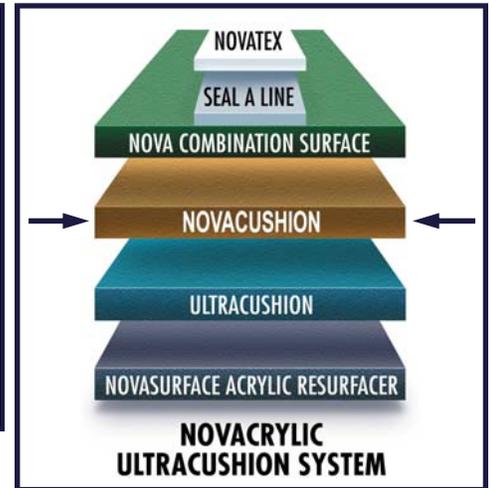
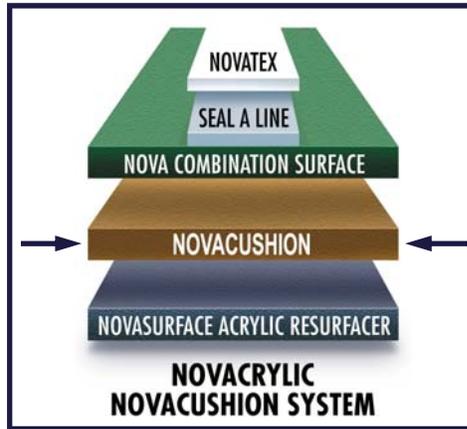
PROTECT FROM HEAT



DO NOT FREEZE



**NOVACUSHION** is 100% acrylic rubber filled coating. It is designed to be used with the Novacrylic tennis court system when extra resilience is desired. Novacushion is applied in multiple layers (the more layers, the greater shock absorbing quality). We recommend a minimum of 4 coats of NOVACUSHION. NOVACUSHION courts are not “soft”, but do absorb some of the impact between the tennis shoe and the court surface. A soft surface would create a court that is very difficult to run on - similar to the extra energy required when running on a soft sandy beach.



After the application of NOVACUSHION is completed, 2 coats of COMBINATION SURFACE should be applied. This results in a uniform texture and appearance.

The NOVACUSHION system, like all of the Novacrylic tennis court systems, is colored all the way through from the top to the substratum. In the event of damage, such as gouges from racquets, vandalism, court equipment, etc., the damaged area will be the same color as the rest of the court.

NOVACUSHION is supplied as a concentrate and must be diluted prior to use.

<b>DILUTION</b>	2 parts NOVACUSHION to 1 part water
<b>SPREADING RATE</b>	0.05 - 0.06 gallons per sq. yd., per coat 150 - 180 sq. ft. per gallon, per coat
<b>TYPICAL APPLICATION</b>	Minimum of 4 coats NOVACUSHION 2 coats COMBINATION SURFACE
<b>PACKAGED QUANTITY</b>	5 gallon pail, 30 gallon drum
<b>WEIGHT</b>	11 lbs per gallon
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with a neoprene rubber squeegee as described on page 7.</b>  <b>Novacushion is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



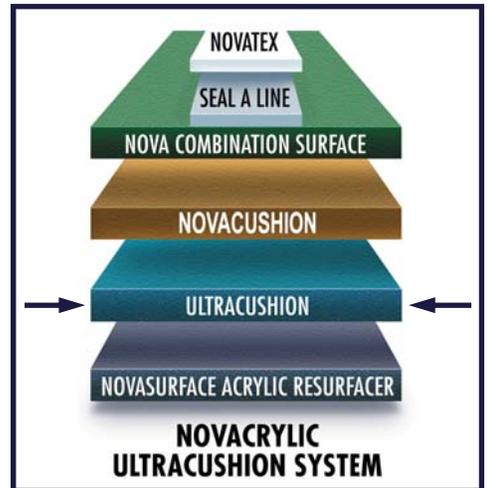
PROTECT FROM HEAT



DO NOT FREEZE



**ULTRACUSHION** is Nova Sports’ superior tennis court surface system. The shock absorbing qualities are achieved by applications of a base consisting of multiple coats of ULTRACUSHION with a special squeegee. ULTRACUSHION is a mixture of various sizes of EDPM rubber granules bound with an especially elastic acrylic blend. This application cures as a rubber filled acrylic base mat that builds thickness of the cushion surface. Two or three coats of COMBINATION SURFACE are applied over the cushion surface. This color application will create a uniform texture and attractive color finish without decreasing the comfort of the entire system. ULTRACUSHION tennis courts are easy on tennis players. The surface has the ability to absorb the shock of impact and will return the energy absorbed by the tennis ball. Players have reported that they are less fatigued after playing on ULTRACUSHION.



ULTRACUSHION is recommended for both outdoor and indoor courts. The Wearing surface is the same non-fading, high performance coating as all the other NOVACRYLIC tennis court surfacing systems.

Older players will appreciate the comfort of this surface. Shin splint injuries are reduced by the shock absorbing qualities and it provides sure footing, yet is not “sticky” and will not grab the tennis shoe. We are able to provide a lot of texture without being abrasive. Tennis balls and shoes will last longer on ULTRACUSHION than on other all-weather surfaces.

<b>DILUTION</b>	2 parts ULTRACUSHION to 1 part water
<b>SPREADING RATE</b>	0.075 gallons per sq. yd., per coat 120 sq. ft. per gallon, per coat
<b>TYPICAL APPLICATION</b>	Minimum 2 coats ULTRACUSHION, Minimum of 3 coats NOVACUSHION, 2 coats COMBINATION SURFACE
<b>PACKAGED QUANTITY</b>	5 gallon pail, 30 Gallon Drum
<b>WEIGHT</b>	11 lbs per gallon

**Minimum Application Temperature is 50°F and rising.**  
Application is with either Model #2025 grooved ASG neoprene rubber squeegee or with approved cushion spray pump.  
Ultracushion is not hazardous\* and is free of lead, mercury, asbestos and formaldehyde.

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT



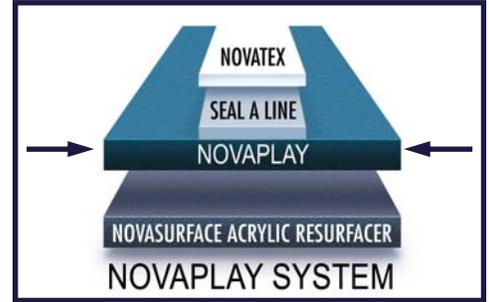
DO NOT FREEZE



**NOVAPLAY** is a high performance, heavy duty, color coating system for pavements that are subjected to more wear than tennis courts. The appearance of Novaplay is very similar to that of a tennis court surface, however, it is formulated with a tougher acrylic emulsion so as to be able to stand up to abuse from street shoes, roller skates, skateboards, vehicular traffic and objects such as furniture legs, etc.

This textured, non-skid, heavy duty surface coating is ideally suited for use on basketball courts, playgrounds, walkways, wheelchair and handicap ramps, and all other pavements where there is a need for an attractive color surface that can stand up to a lot of abuse.

Novaplay is available in all the standard Novacrylic colors. We recommend two coats of undiluted Novaplay for maximum performance and best appearance.



<b>DILUTION</b>	Use NOVAPLAY undiluted
<b>SPREADING RATE</b>	0.064 - 0.069 gallons per sq. yd., per coat 130 - 140 sq. ft. per gallon per coat
<b>COLOR</b>	Black, Blue, Brown, Burgundy, Classic Green, Grass Green, Grey, Nova Green, Red, Sand Dune, Stadium Blue, Terra Cotta
<b>PACKAGED QUANTITY</b>	5 gallon pail or 30 gallon drum
<b>WEIGHT</b>	14 lbs per gallon
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with a neoprene rubber squeegee as described on page 7.</b>  <b>NOVAPLAY is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT

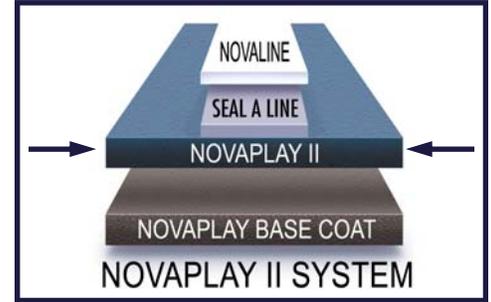


DO NOT FREEZE



**NOVAPLAY II** is a high performance, heavy duty, non-textured colored top coat. Novaplay II is designed to be used as a system with Novaplay Base Coat resulting in a slightly textured finish. This complete system is ideal for such sports as in-line skating, street hockey, basketball, shuffleboard, and other games where a smooth, non-skid coating is required.

Novaplay II has all toughness that has been expected from Novaplay, plus the feel that may be desired for all the above games. This system will provide an attractive surface that will stand up to heavy traffic.



<b>DILUTION</b>	Use NOVAPLAY II undiluted
<b>SPREADING RATE</b>	0.064 - 0.081 gallons per sq. yd., per coat 110 to 140 sq. ft. per gallon per coat
<b>COLOR</b>	Black, Blue, Brown, Burgundy, Classic Green, Grass Green, Grey, Nova Green, Red, Sand Dune, Stadium Blue, Terra Cotta
<b>PACKAGED QUANTITY</b>	5 gallon pail, 30 gallon drum, 55 gallon drum
<b>WEIGHT</b>	12 lbs per gallon
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with a neoprene rubber squeegee as described on page 7.</b>  <b>NOVAPLAY II is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT



DO NOT FREEZE



**NOVATRACK** is a highly pigmented 100% acrylic polymer concentrate, filled with colored EPDM rubber for use on new asphalt, or over existing color surfaces including Latex and S.A.R. tracks.

Application shall be done with a neoprene rubber squeegee or with a spray apparatus capable of spraying rubber filled granules suspended in acrylic binder. Asphalt must be completely cured (30 days) prior to applying NOVATRACK.

Ideal for making an older track look new, or to be used on new construction, NOVATRACK provides a low cost alternative to urethane and other track systems.



<b>DILUTION</b>	2 parts NOVATRACK to 1 part water
<b>SPREADING RATE</b>	0.10 - 0.11 gallons per sq. yd., per coat (sprayed) 0.12 - 0.15 gallons per sq. yd., per coat (squeegeed) 80 - 90 sq. ft. per gallon per coat (sprayed) 60 - 70 sq. ft. per gallon per coat (squeegeed)
<b>COLOR</b>	Black, Blue, Green, Red
<b>TYPICAL APPLICATION</b>	2 - 3 coats
<b>PACKAGED QUANTITY</b>	5 gallon pail, 30 gallon drum, 55 gallon drum
<b>WEIGHT</b>	11 lbs per gallon

**Minimum Application Temperature is 50°F and rising.**  
**Application is with either Model #2025 grooved ASG neoprene rubber squeegee or with approved cushion spray pump.**  
**Not to be used on concrete running tracks**  
**NOVATRACK is not hazardous and is free of lead, mercury, asbestos and formaldehyde.**

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT



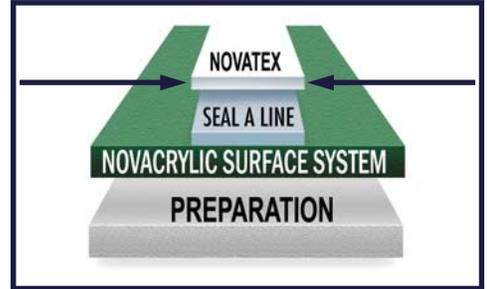
DO NOT FREEZE



**NOVATEX** is our textured white line paint. The sharpest and most attractive lines result from the hand application of Novatex between two strips of masking tape. Novatex lines are brilliant, sharply defined and add a great deal to the overall appearance of the tennis court. The lines are “the frosting on the cake”.

An additional advantage of lines done with Novatex is shots landing on the Novatex line will not skid as they might on other line paints. Rather, they’ll have the same true bounce as those shots landing anywhere else on the Novacrylic surface.

We have formulated Novatex from the highest quality titanium white pigments designed for maximum durability and intensity. Enhanced with optical brighteners, Novatex provides maximum hiding, extreme whiteness, non-skid properties, and easy application with masking tape.



**NOTE: Seal-A-Line before application of Novatex is recommended**

<b>DILUTION</b>	Use NOVATEX undiluted
<b>SPREADING RATE</b>	1 gallon per court
<b>COLOR</b>	White. Colored NOVATEX available upon request
<b>PACKAGED QUANTITY</b>	1 gallon pail, 1 gallon squeeze bottle, 5 gallon pail, 30 gallon container
<b>WEIGHT</b>	15 lbs per gallon
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with a brush or roller.</b>  <b>Novatex is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT



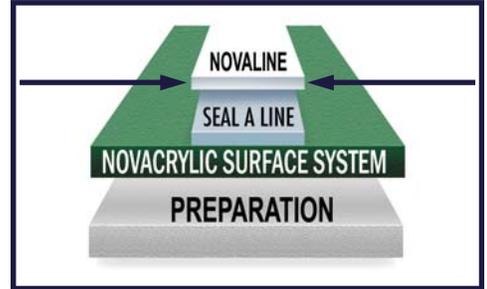
DO NOT FREEZE



**NOVALINE** is 100% acrylic line paint designed for spray application or for sports surfaces which require non textured lines.

It has all the characteristics of our Novatex textured line paint...high hiding, long wearing and brilliant colors.

We have formulated Novaline from the highest quality titanium white pigments designed for maximum durability and intensity. Enhanced with optical brighteners, Novaline provides maximum hiding, extreme whiteness, non-skid properties, and easy application with masking tape.



**NOTE: Seal-A-Line before application of Novaline is recommended**

<b>DILUTION</b>	Use NOVALINE undiluted
<b>COLOR</b>	White. Colored NOVALINE available upon request
<b>PACKAGED QUANTITY</b>	1 gallon, 5 gallon, 30 gallon containers
<b>WEIGHT</b>	14 lbs per gallon
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with a brush or roller.</b>  <b>Novaline is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT

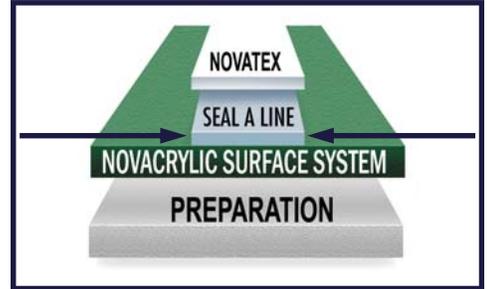


DO NOT FREEZE



**SEAL-A-LINE** is a special coating that seals the edge of masking tape on hand painted lines so that no line marking paint migrates under the edge of the masking tape. This creates lines so sharp that they look as if they were cut into the surface with a knife.

Seal-A-Line is applied as supplied using a paint brush or roller after masking tape is put down. The coat of Seal-A-Line dries quickly (10 minutes in good drying conditions). When dry, apply a coat of Novatex textured line paint. When masking tape is removed, the sharpest white line possible results.



<b>DILUTION</b>	Use SEAL-A-LINE undiluted
<b>COLOR</b>	White when liquid. Clear when dry.
<b>PACKAGED QUANTITY</b>	1 gallon pail, 1 gallon squeeze bottle, 5 Gallon pail
<b>WEIGHT</b>	12 lbs per gallon
<p><b>Minimum Application Temperature is 50°F and rising.</b>  <b>Application is with a brush or roller.</b>  <b>Seal-A-Line is not hazardous* and is free of lead, mercury, asbestos and formaldehyde.</b></p>	

\* According to standards in place at the time this document was created, this product is rated non-hazardous



PROTECT FROM HEAT



DO NOT FREEZE



All of the following systems will result in surfaces that look and perform well. There are often many approaches to a quality recreational surface. The following are some better choices. All below systems are for asphalt or previously coated concrete. For new concrete, see "Concrete Preparation", page 6.

	<p>* Novasurface 2 coats Combination Surface 1 coat Seal-A-Line 1 coat Novatex</p>			
	<p>* Novasurface 2 coats colored Novafil 1 coat Novacoat 1 coat Seal-A-Line 1 coat Novatex</p>			
	<p>* Novasurface Multiple coats Novacushion (more coats = more shock absorbing ability. Minimum of 4 coats recommended). 2 coat or 3 coat color system (see above)</p>			
	<table border="0"> <tr> <td data-bbox="570 1014 922 1289"> <p><b>STANDARD</b> *Novasurface 2 coats Ultracushion 3 coats Novacushion 2 coats Combination Surface 1 coat Seal-A-Line 1 coat Novatex</p> </td> <td data-bbox="922 1014 1258 1289"> <p><b>LUXURY</b> * Novasurface 3 coats Ultracushion 4 coats Novacushion 2 coats Combination surface 1 coat Seal-A-Line 1 coat Novatex</p> </td> <td data-bbox="1258 1014 1583 1289"> <p><b>ULTIMATE</b> * Novasurface 4 coats Ultracushion 4 coats Novacushion 3 coats Combination surface 1 coat Seal-A-Line 1 coat Novatex</p> </td> </tr> </table>	<p><b>STANDARD</b> *Novasurface 2 coats Ultracushion 3 coats Novacushion 2 coats Combination Surface 1 coat Seal-A-Line 1 coat Novatex</p>	<p><b>LUXURY</b> * Novasurface 3 coats Ultracushion 4 coats Novacushion 2 coats Combination surface 1 coat Seal-A-Line 1 coat Novatex</p>	<p><b>ULTIMATE</b> * Novasurface 4 coats Ultracushion 4 coats Novacushion 3 coats Combination surface 1 coat Seal-A-Line 1 coat Novatex</p>
<p><b>STANDARD</b> *Novasurface 2 coats Ultracushion 3 coats Novacushion 2 coats Combination Surface 1 coat Seal-A-Line 1 coat Novatex</p>	<p><b>LUXURY</b> * Novasurface 3 coats Ultracushion 4 coats Novacushion 2 coats Combination surface 1 coat Seal-A-Line 1 coat Novatex</p>	<p><b>ULTIMATE</b> * Novasurface 4 coats Ultracushion 4 coats Novacushion 3 coats Combination surface 1 coat Seal-A-Line 1 coat Novatex</p>		
	<p>* Novasurface 2 or 3 coats Novaplay 1 coat Seal-A-Line 1 coat Novatex - This system is ideal for basketball courts, playgrounds and other heavy duty applications</p>			
	<p>2 coats Novaplay Base Coat 3 coats Novaplay II 1 coat Seal-A-Line 1 coat Novaline - This system is ideal for in-line skating rinks, or other heavy duty activities, where a smoother, tougher surface is required.</p>			
	<p>2 or 3 coats Novatrack 1 coat Novaline</p>			

\* optional

The figures shown below are based upon actual projects. The amount of product (in the yield column) may be different because of variables such as porosity, density, compaction and smoothness of the pavement, temperature, humidity and wind (drying conditions), and the technique used in application.

CATEGORY	PRODUCT	DILUTION material to water	Rate of Application (undiluted material) sq. ft. per gal, per coat	Yield Approximation (undiluted material) gal per sq. yd. per coat	PAGE
Preparation and repair products	CONCRETE PRIMER	EQUAL	200 - 250	0.036 - 0.045	9
	Water Based Epoxy	Mix Part A with Part B for 3 minutes	180—200		9A
	NOVABOND	Dilution depends on use. See product sheet for specific information.			10
	NOVASURFACE	2 PARTS - 1 PART	90 - 150	0.06 - 0.10	11
	NOVAPLAY BASECOAT	2 PARTS - 1 PART	90 - 150	0.06 - 0.10	12
	NOVACAULK STEPS 1 AND 2	NO DILUTION	70 linear ft. of 1/2" cracks per gallon		13
Tennis surfaces	NOVAFIL	2 PARTS - 1 PART	120 - 260	0.035 - 0.075	15
	NOVACOAT	EQUAL	150 - 275	0.032 - 0.06	16
	COMBINATION SURFACE	2 PARTS - 1 PART	160 - 190	0.047 - 0.056	17
	NOVACUSHION	2 PARTS - 1 PART	150 - 180	0.05 - 0.06	18
	ULTRACUSHION	2 PARTS - 1 PART	120	0.075	19
Multi-sport surfaces	NOVAPLAY	NO DILUTION	110 - 140	0.064 - 0.069	20
	NOVAPLAY II	NO DILUTION	110 - 140	0.064 - 0.081	21
Track	NOVATRACK	2 PARTS - 1 PART	80 - 90 sprayed 60 - 70 squeegeed	0.10 - 0.11 sprayed 0.12 - 0.15 squeegeed	22
Lines and markings	NOVATEX NOVALINE	NO DILUTION	1 GALLON PER COURT		23 & 24

# COMBINATION SURFACE SYSTEM FOR HOT MIX ASPHALT TENNIS COURTS



## I. PART 1— GENERAL

### 1.1 SUMMARY

A. This section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.

B. Related Sections:

#### 1. STANDARDS

All work shall be done in accordance with the American Sports Builders Association (A.S.B.A.) Tennis Book.

### 1.2 SCOPE OF WORK

A. This specification covers the construction and installation for: (#) Tennis courts at (project name & location).

B. Tennis courts shall be cleaned using a stiff bristle broom and gas powered blower or water based pressure spray unit capable of generating 2500 psi at the nozzle tip, to remove all dirt and debris.

C. The work to be performed under this specification includes all labor, equipment, materials and supplies necessary for the installation of the tennis courts included in this contract.

## II. PART 2—PRODUCTS

### 2.1 TENNIS COURT SURFACE MATERIAL

A. Tennis Court Surfacing Materials shall be:

1. Novacrylic as manufactured by Nova Sports U.S.A., 6 Industrial Rd., Bld. #2, Milford, MA 01757 800-USA-NOVA

2. Approved equal.

B. All coatings shall be pure acrylic, containing no asphaltic or tar emulsions, nor any vinyl, alkyd or non-acrylic resins. The color system shall be factory-mixed compounds requiring only the addition of water at the jobsite except for the addition of sand to Novasurface. All materials shall be delivered to the jobsite in sealed containers with the manufacturer's label affixed.

C. Substitution: if other than the product specified, the contractor shall submit at least 7 days prior to the bid date a complete type written list of proposed substitutions with sufficient data, drawings, samples and literature to demonstrate to the owners satisfaction that the proposed substitution is of equal quality and utility to that originally specified. Information must include a QUV test of at least 2000 hours illustrating the UV stability of the system. The color system shall have an ITF pace rating in Category 3 Medium. Under no circumstances will systems from multiple manufacturers be considered.

## III. PART 3—EXECUTION

### 3.1 APPLICATION

A. New asphalt pavement shall cure for 14 days prior to application of any surface materials.

B. Contractors must notify the Landscape Architect of all applications, 48 hours prior to installation.

C. The surface to be coated shall be inspected and made sure to be free of grease, oil, dust, dirt and other foreign matter before starting work.

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D. The surface shall be flooded. Any ponding water remaining that is deep enough to cover the thickness of a five-cent piece shall be corrected using a patch mix consisting of Novabond, 50-mesh sand and Type 1 Portland Cement, as per manufacturers directions. Depressions must be primed with a 50% dilution of Novabond and water prior to patching.

E. Application shall proceed only if the surface is dry and clean and the surface temperature is at least fifty degrees (50°F) and rising, and the surface temperature is not in excess of one hundred forty degrees (140°F). Do not apply coatings when rain is imminent.

F. Each coat in this system must dry completely before next application. Between each coat, inspect entire surface. Any defects should be repaired. Scrape surface to remove any lumps, and broom or blow off any loose matter.

G. Using a neoprene rubber squeegee, apply one (1) coat of Novasurface acrylic resurfacer, diluted with one (1) part clean water to two (2) parts Novasurface. Clean, bagged sand shall be incorporated into the diluted Novasurface at the rate of ten (10) to fifteen (15) Lbs. per gallon. Sand gradation shall be 50 to 60 mesh. Allow application to dry thoroughly.

H. Using a neoprene rubber squeegee, apply two (2) coats of Novacrylic Combination Surface, diluted two (2) parts concentrated material to one (1) part clean water (colors to be designated by owner). Allow each application to dry thoroughly. The quantity of water used in diluting these coatings may exceed the quantity specified by only a small amount and only if coatings are drying too rapidly. Permission of the owner shall be obtained before adding additional water.

### 3.2 LINE MARKINGS

A. Upon completion and acceptance of the tennis surface, this contractor shall prepare and paint lines for tennis.

B. All lines are to be applied by painting between masking tape with a paint brush or roller, according to U.S.T.A. specifications.