

Dell Diamond Parking Lot Pavement Repairs Project - Addendum #1 Questions and Responses

Question 1: Does the City of Round Rock (City) expect the contractor to apply three layers of the Jennite AE sealer and one layer of Polyprime pavement primer?

Response 1: Yes. The City expects that the Jennite AE will be applied as per the Application Specifications sheet (NJ-S3 Item# 3.7) provided. The specific Polyprime pavement primer recommended by NEYRA may be substituted by an equivalent product. The product data sheet for Polyprime can be found at: <http://www.neyra.com/resources/technical-information>. (The data sheet has also been attached at the end of this Addendum#1 for your consideration)

Question 2: Does the City want to use the Polyprime over the entire surface, or just spot treat trouble areas (i.e. oil spots)?

Response 2: The City expects that the entire surface area will be treated with Polyprime, or an equivalent pavement primer, before the three applications of Jennite AE are applied. Should an “oil-spot” primer be required, the recommended Petrobond acrylic oil spot primer, or an equivalent oil spot primer, should be used. The product data sheet for Petrobond can be found at: <http://www.neyra.com/resources/technical-information>. (The data sheet has also been attached at the end of this Addendum#1 for your consideration)

Question 3: Does the City want to use the Plyolastic Cold Pour for the crack fill?

Response 3: The City will accept any of the options presented in the Application Specifications sheet (NJ-S3 Item# 3.8), a Plyolastic pourable crack filler or either of the Thermo-Seal crack/joint sealants PLS, or Spec+Plus, or an equivalent substitute to any of these products. The Plyolastic, PLS, and Spec+Plus product data sheets for the recommended crack/joint sealants can be found at: <http://www.neyra.com/resources/technical-information>. (The data sheets have also been attached at the end of this Addendum#1 for your consideration)

Question 3: Will this project be completed in phases?

Response 3: Yes, this project will be completed in phases arranged according to the scheduled events at the Dell Diamond.

March 25, 2016

Question 4: Will there be a pre-bid meeting?

Response 4: No, this project will not have a pre-bid. Please continue emailing your questions, and they will be addressed and posted here as Addendum #1.

Question 5: Is there a rough estimate of how many different areas are 12" Pavement Repairs and how many are Minor Repairs?

Response 5: There are approximately 15 locations where a 12" Pavement Repair is required and a multitude of locations that will require a Minor Repair.

Question 6: Will an initial coat of Type II Traffic Paint be required prior to applying the Type I Thermo-plastic pavement markings?

Response 6: No, this standard will not be required for this project.

Question 7: Will the application of reflective beads be required for Item 7-Reflectorized Paint for Fire Lane Striping?

Response 7: No, this standard will not be required for this project.

1. PRODUCT NAME

Plyolastic®

2. MANUFACTURER

Neyra Industries, Inc.
10700 Evendale Drive
Cincinnati, Ohio 45241

Phone: 513-733-1000
Toll Free: 800-543-7077
Fax: 513-733-3989
Email: info@neyra.com
Website: www.neyra.com

3. PRODUCT DESCRIPTION

Plyolastic is a rubberized asphalt emulsion crack filler formulated to be flexible and fast setting for use on asphalt pavements.



Packaging:

Available in 5 gal. pails and 1 gal. spouted jugs. Drums can be special ordered.

Color:

Plyolastic dries black.

Basic Uses:

Plyolastic provides a tough, resilient barrier against moisture for cracks up to 1/2" in width.

Composition:

As shipped, Plyolastic is a rubberized asphalt emulsion.

- **Commercial Grade Performance:** This fortified emulsion is a flexible and durable crack filler for asphalt surfaces.
- **Good Adhesion:** A cationic penetrating surfactant formulation ensures bonding to the surface.
- **Excellent Resilience:** A superior synthetic polymer compound provides elasticity.
- **Rubberized:** Contains latex polymer to improve durability, flexibility and drying time.
- **Less Shrinkage:** A high solids formulation prevents abnormal shrinkage.
- **Ready to Use:** A convenient, fast and easy one-component system.

Limitations:

Do not allow to freeze. Do not store in direct sunlight or where temperature exceeds 120°F.

4. INSTALLATION

Preparatory Work:

Crack must be dry, clean and free of dust and loose material.

Methods:

May be used directly from 1 gal. spouted jug, pour pot or suitable mechanized equipment.

Mix Design:

Use full strength, do not dilute. Mix well before use.

Application:

Fill crack with Plyolastic, squeegee any excess flush with pavement surface. Allow to dry.

One gal. of Plyolastic fills the following approximate lineal feet:

Width	Depth		
	1/8"	1/4"	1/2"
1/8"	1200	600	300
1/4"	600	300	150
1/2"	300	150	75

NOTE: For wider and deeper cracks, hot-applied Thermo-Seal crack sealants are recommended.

Precautions:

Keep out of reach of children. Container should be closed when not in use. Contains petroleum distillate. Avoid breathing vapor or prolonged contact with skin or eyes. Flush immediately with water. Consult specific Neyra material safety data sheet before use.

5. MAINTENANCE

Tools and equipment may be cleaned promptly with water.

6. TECHNICAL DATA

Environmental Considerations:

Plyolastic is considered non-hazardous when tested according to the EPA's TCLP (Toxicity Characteristic Leaching Procedure). Plyolastic is a water-based material containing less than 10g/L (.08 lbs./gal.) VOC content.

Physical Composition:

Plyolastic, as supplied, meets the following requirements when tested according to ASTM D2939 and D244 procedures:

Requirements	ASTM	Max	Min
Non-Volatiles %	D2939	-	68
Water %	D244	32	-
Specific Gravity	D2939	-	1.2

Drying Time:

Varies with dimensions of crack and weather conditions.

Non-Flammability:

The cured coating shows no tendency to flash or ignite.

Adhesion & Resistance to Water:

The cured sealant exhibits no penetration, blistering, loss of adhesion nor tendency to re-emulsify after immersion for 8 hours.

7. TECHNICAL SERVICE

Material safety data sheets, product and application recommendations, as well as assistance with special situations and field service are available upon request. Special project submittals are available through Customer Service.

8. WARRANTY

The above specifications on product usage are believed to be true and accurate. Neyra Industries, Inc. guarantees that all materials manufactured comply with quality standards as described in the product data sheets. Because the application, handling, weather, workmanship and equipment are beyond the control of this manufacturer, only the quality of the products as shipped is guaranteed. In no case will the liability of Neyra Industries, Inc. exceed the purchase price of the shipped materials.

9. ADDITIONAL INFORMATION

Neyra Industries, Inc. manufactures a full line of asphalt pavement maintenance and recreational surface products as well as application equipment sold and distributed nationally at our plants and through distributors. To find the supplier most convenient to you, please contact us.



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Website: www.neyra.com

Crack /Joint Thermo-Sealant

1. PRODUCT NAME PLS™

2. MANUFACTURER

Neyra Industries, Inc.
10700 Evendale Drive
Cincinnati, Ohio 45241

Phone: 513-733-1000
Toll Free: 800-543-7077
Fax: 513-733-3989
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Website: www.neyra.com

- **Climatically Engineered:** Formulated for a firm set in warmer climates.
- **Tough & Pliable:** A no tracking formula for parking lots.
- **Sets Firm & Fast:** You can seal in 15 minutes or less.
- **No Bleed Through:** Ideal for crackfilling under sealcoating, slurry seals and overlays.
- **Optimum Texture:** Granular rubber improves sealcoat adhesion.
- **Proven Performance:** many ASTM, AASHTO and Federal specs for crack sealants including ASTM D1190 and D6690 Type I.

3. PRODUCT DESCRIPTION

PLS is a highly modified, single component, hot applied, rubber/asphalt joint and crack sealant. Furnished as a solid, it is an elastomeric sealant which is compatible with and bonds aggressively to dry and clean concrete or asphalt pavements.

recommended for cracks over 1" wide. Do not store in direct sunlight or where temperature exceeds 120°F.

a flush to 1/8 inch concave surface appearance. One pound of PLS will fill the following lineal feet:

4. INSTALLATION

Preparatory Work:

Crack or joint must be properly prepared prior to installation of PLS by means of routing and/or the use of a hot compressed air jet to remove all incompressibles and assure the sidewalls of crack are clean and dry.

Methods:

PLS can only be properly heated in a kettle with both agitation and temperature control. The range of safe heating temperature for the product is between 325-375°F. Material can be pumped or gravity fed into crack/joint. Care should be taken to minimize the amount of sealant left on the pavement surface.

Mix Design:

Blocks of PLS are formulated as a single component system. Do not add to or mix with any other material.

Application:

Install heated sealant directly into cracks/joints not to exceed a 4 inch wide band. Thickness should be controlled to not more than 1/8 inch above pavement surface. Finished sealed cracks and joints will be uniformly level. Refill to achieve

Width	Depth			
	1/4"	1/2"	3/4"	1"
1/4"	32	16	12	8
1/2"	16	8	5.5	4.5
3/4"	12	5.5	4.5	3
1"	8	4.5	3	2

Precautions:

Extreme care must be taken with hot applied sealants. A long sleeved shirt, long pants, gloves and face protection must be worn. **Severe burn hazard.** Keep out of reach of children. Consult specific Neyra material safety data sheet before use.

5. MAINTENANCE

Remove from equipment and tools with heat. Clean hands with waterless hand cleaner.

6. TECHNICAL DATA

Applicable Standards:

PLS meets the performance standards of AASHTO M173 and D6690 Type I when tested according to ASTM D5329, Standard Test Methods for Hot Applied Sealants.



Packaging:

Available in 30 lb. cardboard boxes. One skid contains 70 boxes.

Color:

PLS is black.

Basic Uses:

PLS is specially formulated for sealing asphalt and portland cement concrete parking lot cracks.

Composition:

As shipped, PLS is composed of asphalt cement, plasticizers, polymers, resins, select oils and recycled rubber.

Limitations:

Do not overheat material. Do not apply to wet or dirty cracks. Not

Environmental Considerations:

PLS is considered non-hazardous when tested according to the EPA's TCLP (Toxicity Characteristic Leaching Procedure).

Performance Requirements:

Refer to chart on back.

7. TECHNICAL SERVICE

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8. WARRANTY

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9. ADDITIONAL INFORMATION

Neyra Industries, Inc. manufactures a full line of asphalt pavement maintenance and recreational surface products as well as application equipment sold and distributed nationally at our plants and through distributors and contractors. To find the supplier most convenient to you, please contact us.

PERFORMANCE REQUIREMENTS

<i>Property</i>	<i>Results</i>
Penetration at 77° F	55 mm
Penetration at 0° F	28 mm
Flow at 140° F	0 mm
Resilience	60% min.
Elongation at 77° F	600%
Bond Test	Pass 100% extension at 0° F
Asphalt Concrete Compatibility	Compatible

NEYRA

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1. PRODUCT NAME

Spec+Plus™

2. MANUFACTURER

Neyra Industries, Inc.
10700 Evendale Drive
Cincinnati, Ohio 45241

Phone: 513-733-1000
Toll Free: 800-543-7077
Fax: 513-733-3989
Email: info@neyra.com
Website: www.neyra.com

- **Pure Polymer Performance:** Longest lasting crack / joint sealant for parking lots and roads.
- **Resilient:** Formulated to perform under the extreme expansion and contraction conditions of colder climates.
- **Contains No Fillers:** Will not settle, jell or coke in kettle.
- **Energy Savings:** Low pour temperature of 325° means lower heating cost and less time on the job.
- **Sets Firm & Fast:** You can open pavement to traffic in 15 minutes.
- **Proven Performance:** Meets and exceeds the standards of ASTM, AASHTO and federal specs for crack sealants, including D1190, D3405 and D6690 Type II & III.

3. PRODUCT DESCRIPTION

Spec+Plus is a highly modified, single component, hot applied, rubber/asphalt joint and crack sealant. Furnished as a solid, it is an elastomeric sealant which is compatible with and bonds aggressively to clean and dry concrete or asphalt pavements.

Limitations:

Do not overheat material. Do not apply to wet or dirty cracks. Not recommended for cracks over 1" wide. Do not store in direct sunlight or where temperature exceeds 120°F.

4. INSTALLATION

Preparatory Work:

Crack or joint must be properly prepared prior to installation of Spec+Plus by means of routing and/or the use of a hot compressed air jet to remove all incompressibles and assure the sidewalls of crack are clean and dry.

Methods:

Spec+Plus should be heated in a vessel designed for heating hot pour crack sealants. Some means of agitation and monitoring of temperature are recommended. The range of safe heating temperature for the product is between 325-375°F. At no time should this product be heated to 425°F. This can degrade the polymers in Spec+Plus and create a fire hazard. A direct fire melter can be used if these precautions are met. It also is suitable for use in an oil-jacketed double boiler. Because Spec+Plus contains no fillers, it is an excellent product for use through pumping type kettles.

Mix Design:

Blocks of Spec+Plus are formulated as a single component system. Do not add to or mix with any other material.

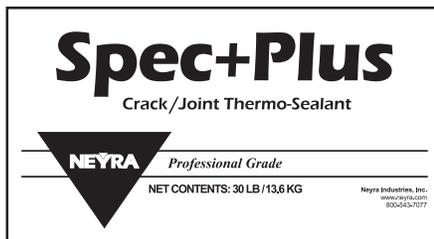
Application:

Install heated sealant directly into cracks/joints not to exceed a 4 inch wide band. Thickness should be controlled to not more than 1/8 inch above pavement surface. Finished sealed cracks and joints will be uniformly level. Refill to achieve a flush to 1/8 inch concave surface appearance. One lb. of Spec+Plus will fill the following lineal feet:

Width	Depth			
	1/4"	1/2"	3/4"	1"
1/4"	32	16	12	8
1/2"	16	8	5.5	4.5
3/4"	12	5.5	4.5	3
1"	8	4.5	3	2

Precautions:

Extreme care must be taken with hot applied sealants. A long sleeved shirt, long pants, gloves and face protection must be worn. **Severe burn hazard.** Keep out of reach of children. Consult specific Neyra material safety data sheet before use.



Packaging:

Available in 30 lb. cardboard boxes. One skid contains 70 boxes.

Color:

Spec+Plus is black.

Basic Uses:

Spec+Plus is specially formulated for sealing asphalt and concrete parking lot cracks.

Composition:

As shipped, Spec+Plus is composed of asphalt cement, plasticizers, polymers, resins, select oils and stabilizers and contains no fillers.

5. MAINTENANCE

Remove from equipment and tools with heat. Clean hands with waterless hand cleaner.

6. TECHNICAL DATA

Applicable Standards:

Spec+Plus meets the performance standards of AASHTO M301, FAA P605, the Army Corp. of Engineers CRD C530 and ASTM D6690 Type II and Type III when tested according to ASTM D5329, Standard Test Methods for Hot Applied Sealants. Spec+Plus is also available by special order in a formula that meets ASTM D6690 Type IV.

Environmental Considerations:

Spec+Plus is considered non-hazardous when tested according to the EPA's TCLP (Toxicity Characteristic Leaching Procedure).

Performance Requirements:

Refer to chart.

7. TECHNICAL SERVICE

Material safety data sheets, product and application recommendations, as well as assistance with special situations and field service are available upon request.

8. WARRANTY

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9. ADDITIONAL INFORMATION

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PERFORMANCE REQUIREMENTS

<i>Property</i>	<i>Results</i>
Penetration at 77° F	60 mm
Penetration at 0° F	30 mm
Flow at 140° F	< 0 mm
Resilience	60% min.
Elongation at 77° F	600%
Bond Test	Pass 50% extension at -20° F
Asphalt Concrete Compatibility	Compatible

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Penetrating Pavement Primer

1. PRODUCT NAME

Polyprime®

2. MANUFACTURER

Neyra Industries, Inc.
10700 Evendale Drive
Cincinnati, Ohio 45241

Phone: 513-733-1000
Toll Free: 800-543-7077
Fax: 513-733-3989
Email: info@neyra.com
Website: www.neyra.com

- **Maximum Adhesion:** Optimizes adhesion of pavement sealer to oxidized asphalt pavements, which creates a stronger surface and allows the pavement sealer to adhere properly.
- **Maximum Penetration:** Formulated with sub-micron particle sized polymers to insure deep penetration into oxidized surfaces.
- **Enhanced Sealer Spreadability:** Polyprime prevents rapid dehydration of sealer, enhancing spreadability.
- **Specialty Applications:** Greatly improves adhesion to oily filmed pavements, polished aggregate surfaces, and fine mix asphalt pavements.
- **Non-flammable:** Polyprime is a water-based material, easy to use and easy to apply with conventional sealcoating equipment.
- **Rapid Drying:** Polyprime dries quickly; does not delay sealcoating.

3. PRODUCT DESCRIPTION

Polyprime is a multi-polymer penetrating primer in concentrated form. It is specifically formulated to rejuvenate oxidized pavement surfaces, allowing greatly improved adhesion of pavement sealer.

Packaging:

Available in 5 gal. pails, 35 gal. fiber drums and 260 gal. totes.

Color:

Polyprime in its liquid state is dark gray and dries black.

Basic Uses:

Polyprime restores the integrity of the aged asphaltic concrete pavement surface, allowing pavement coating to bond securely and therefore last longer. Used as a restorative primer, Polyprime is an important part of a premium quality pavement sealing system. Polyprime should also be used on fine mix asphalt pavements, where aggregate is polished, or if there is an oily film throughout the pavement. May be used as a primer for new asphalt patches.

Composition:

As shipped, Polyprime is a water-based multi-polymer and surfactant blend.

Limitations:

Do not allow to freeze. Do not store in direct sunlight or where temperature exceeds 120°F. Polyprime is

a penetrating primer and is not intended for use as a finish coat.

4. INSTALLATION

Preparatory Work:

The areas to be treated must be free of dirt and grime. Scrape away build-up of oil, gas, and/or grease deposits before priming. Apply Petrobond (Product Data Sheet 152), an oil spot primer, to any heavy stains as an additional preventative measure.

Methods:

Apply to sound pavements with spray equipment.

Mix Design:

Polyprime is a concentrated material intended to be mixed with water to form a ready to use primer. Mix one part Polyprime with two parts water. Mix occasionally during use.

Per 100 gallons of Polyprime

Water	Yield
200 gal.	300 gal.

Application:

For use over sound asphalt pavement, the following application procedures are recommended for best results:

Application Rate per Coat

	Gal/SY	Gal/SF
Diluted Mix	.03 - .06	.003 - .006

One gallon of concentrate will cover 300 square feet. Multiply square yards of surface x .01 to determine gallons of concentrate per coat.

Coverage rates can vary with the application method and the age, texture, and porosity of the pavement to be sealed. Avoid over or under application of the product. Polyprime is formulated to be used in a continuous, thin film.

Application must be made when ambient temperatures and pavement temperatures are above 50°F. Good drying conditions above 50°F are required during the subsequent 8 hours and no temperatures below 50°F should be anticipated for 48 hours. Night time application is not recommended.

After the application of Polyprime has dried, the surface is then sealed with a pavement sealer.

Precautions:

Keep out of reach of children. Container should be closed when not in use. Do not apply over chip seals, or sealers which contain gilsonite. Not recommended for use on portland cement concrete or for indoor use.

New asphalt must be allowed to cure for a minimum of 30 days prior to application and must not exhibit ribboning, crawling, nor show oil rings when 1 gal. of clean water is poured onto the surface.

Protect wet primer at all times from

freezing and rain.

Consult specific Neyra material safety data sheet before use.

5. MAINTENANCE

Tools and equipment may be cleaned promptly with water.

6. TECHNICAL DATA

Physical Composition:

As supplied, Polyprime meets the following requirements when tested according to ASTM D2939 and D244 procedures:

Requirements	ASTM	Max	Min
Non-Volatiles %	D2939	16.0	14.0
Viscosity	D244	75ku	65ku
pH	D244	10.0	9.0
Specific Gravity	D2939	1.25	1.1

Environmental Considerations:

Polyprime is considered non-hazardous when tested according to E.P.A.'s TCLP (Toxicity Characteristic Leaching Procedure). Polyprime is a water-based material containing less than 50g/L (.42lbs./ gal.) VOC content.

7. TECHNICAL SERVICES

Material safety data sheets, product and application recommendations, as well as assistance with special situations and field service are available upon request. Special project submittals are available through Neyra Customer Service.

8. WARRANTY

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