

**Kuri Tec®**

**A4143 Series  
Medium Pressure  
Paint Fluid Transfer Hose**



Lightweight polyethylene-lined rubber blend hose that is the ideal choice for handling paint and paint-related products in a variety of applications.

**Construction:**

- Tube — Co-extruded blue LLDPE/rubber blend.
- Reinforcement — High tensile strength yarn.
- Cover — Black rubber blend compound; Branded “Paint Fluid”.

**Features:**

- Excellent resistance to paint fluids, lacquers and solvents . . . see chemical resistance chart, referring to both core and cover materials, on Page 66.
- Excellent flexibility.
- Lightweight.
- Silicone-free.

- One-piece lengths.
- Compatible with popular spray fittings, such as Binks and DeVilbiss.
- Excellent cold weather properties.
- RoHS<sup>(16)</sup> compliant.
- Phthalate Free!

**Applications:**

- Lower pressure transfer of enamels, lacquers and other finishes.
- Robotic paint spraying equipment.
- Manual paint spraying.
- Spraying of automobile “rustproofing” fluids.
- Low temperature transfer of chemicals.

Service Temperature Range: -40°F (-40°C) to +125°F (+52°C)

**Nominal Specifications**

Series No.	Size Code	Nominal ID		Nominal OD		Max. Working Pressure† (PSI)		Standard Length		Approx. Wt. per Pkg.	
		(In)	(mm)	(In)	(mm)	@70°F (20°C)	@122°F (50°C)	Reel	Coil	Reel	Coil
A4143	04	1/4	6.5	.500	12.7	175	85	500 ft.	100 ft.	36 lbs.	7 lbs.
A4143	06	3/8	9.5	.690	17.3	175	85	500 ft.	100 ft.	60 lbs.	12 lbs.
A4143	08	1/2	12.7	.875	22.2	175	85	500 ft.	100 ft.	93 lbs.	18 lbs.
A4143	12	3/4	19.0	1.188	30.2	150	75	—	300/100 ft.	—	85/28 lbs.
A4143	16	1	25.4	1.500	38.1	125	60	—	200/100 ft.	—	86/43 lbs.

† Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures. Compatible with popular spray fittings, such as Binks and DeVilbiss.

**CAUTION: NOT FOR USE WITH HOT PAINT. DO NOT EXCEED TEMPERATURE OF 125°F (+52°C).  
WARNING: IMMERSION OF THE HOSE IN SOLVENTS FOR AN EXTENDED PERIOD OF TIME IS NOT RECOMMENDED DUE TO POTENTIAL SWELLING OF THE HOSE JACKET.**

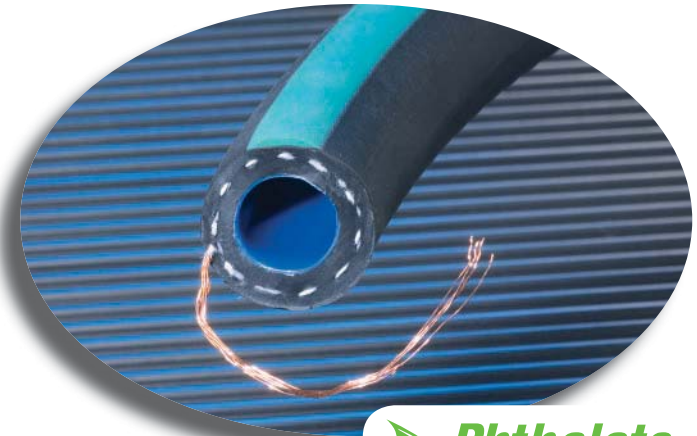
NOTE: For details of the following compliances mentioned above, refer to footnotes listed on page 63.

**PHthalate FREE<sup>(15)</sup>, RoHS<sup>(16)</sup>**

Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS OR DISCONTINUE PRODUCTS WITHOUT PRIOR NOTICE.

## A4143S Series (with Static Wire) Medium Pressure Paint Fluid Transfer Hose



Lightweight polyethylene-lined rubber blend hose that is the ideal choice for handling paint and paint-related products in a variety of applications.

### Construction:

- Tube — Co-extruded blue LLDPE/rubber blend.
- Static wire — Embedded copper wire for static conductivity (see note below).‡
- Reinforcement — High tensile strength yarn.
- Cover — Black rubber blend compound; Branded “Paint Fluid”.

### Features:

- Excellent resistance to paint fluids, lacquers and solvents... see chemical resistance chart, referring to both core and cover materials, on Page 66.
- Excellent flexibility.
- Lightweight.

- Silicone-free.
- One-piece lengths.
- Compatible with popular spray fittings, such as Binks and DeVilbiss.
- Excellent cold weather properties.
- Static conductivity.
- RoHS<sup>(16)</sup> compliant.
- Phthalate Free!

### Applications:

- Lower pressure transfer of enamels, lacquers and other finishes.
- Robotic paint spraying equipment.
- Manual paint spraying.
- Spraying of automobile “rustproofing” fluids.
- Low temperature transfer of chemicals.

Service Temperature Range: -40°F (-40°C) to +125°F (+52°C)

### Nominal Specifications

Series No.	Size Code	Nominal ID		Nominal OD		Max. Working Pressure† (PSI)		Standard Length		Approx. Wt. per Pkg.	
		(In)	(mm)	(In)	(mm)	@70°F (20°C)	@122°F (50°C)	Reel	Coil	Reel	Coil
A4143S	04	1/4	6.5	.500	12.7	175	85	500 ft.	100 ft.	36 lbs.	7 lbs.
A4143S	06	3/8	9.5	.690	17.3	175	85	500 ft.	100 ft.	60 lbs.	12 lbs.
A4143S	08	1/2	12.7	.875	22.2	175	85	500 ft.	100 ft.	93 lbs.	18 lbs.
A4143S	12	3/4	19.0	1.188	30.2	150	75	—	300/100 ft.	—	85/28 lbs.
A4143S	16	1	25.4	1.500	38.1	125	60	—	200/100 ft.	—	86/43 lbs.

† Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures. Compatible with popular spray fittings, such as Binks and DeVilbiss.

‡ Caution: This product is designed to dissipate static electricity when the metal wire is properly grounded through the fitting or by other means.

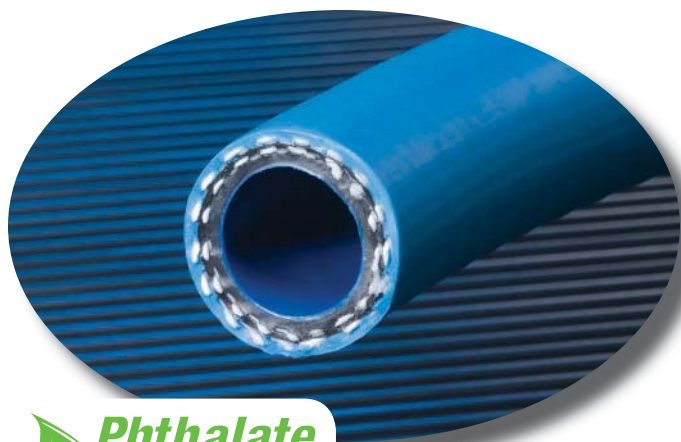
**CAUTION: NOT FOR USE WITH HOT PAINT. DO NOT EXCEED TEMPERATURE OF 125°F (+52°C).  
WARNING: IMMERSION OF THE HOSE IN SOLVENTS FOR AN EXTENDED PERIOD OF TIME  
IS NOT RECOMMENDED DUE TO POTENTIAL SWELLING OF THE HOSE JACKET.**

NOTE: For details of the following compliances mentioned above, refer to footnotes listed on page 63.

**PHthalate Free<sup>(15)</sup>, RoHS<sup>(16)</sup>**

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## A4086 Series High Pressure Polyethylene Rubber Blend Reinforced Chemical Spray & Transfer Hose

A premium chemical spray and transfer hose for applications requiring greater chemical-resistance . . . excellent for high pressure tree and orchard spraying, as well as paint, solvent and chemical transfer.

### Construction:

- Tube — Co-extruded blue LLDPE/rubber blend.
- Reinforcement — High tensile strength yarn . . . two-pass spiral construction.
- Cover — Blue rubber blend compound.

### Features:

- Excellent chemical-resistance.
- Extremely light weight.
- Excellent low temperature properties.
- Pin-pricked cover vents vapor . . . helps prevent ballooning.

- Silicone-free.
- RoHS<sup>(16)</sup> compliant.
- Phthalate Free!

### Applications:

- For use in applications where additional chemical resistance is required . . . see chemical resistance chart, referring to both core and cover materials, on Page 66.
- High pressure tree, orchard and vineyard spraying.
- Concrete curing and spraying.
- Paint and solvent transfer.
- Chemical transfer.



Service Temperature Range: -40°F (-40°C) to +130°F (+54°C)

### Nominal Specifications

Series No.	Size Code	Nominal ID		Nominal OD		Max. Working Pressure† (PSI)		Standard Length Coils	Approx. Wt. per Pkg.
		(In)	(mm)	(In)	(mm)	@ 70°F (20°C)	@ 122°F (20°C)		
A4086	06	3/8	9.5	.688	17.5	800	300	300/100 ft.	33/11 lbs.
A4086	08	1/2	12.7	.840	21.3	800	300	300/100 ft.	45/15 lbs.
A4086	12	3/4	19.1	1.140	29.0	800	250	300/100 ft.	72/24 lbs.
A4086	16	1	25.4	1.400	35.6	400	125	200/100 ft.	65/33 lbs.

† Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Note: Use of hydraulic or reusable-type fittings are not recommended for coupling Kuri Tec® hose products. Hose claims involving use of these fittings will be disallowed.

NOTE: For details of the following compliances mentioned above, refer to footnotes listed on page 63.

**PHthalate FREE<sup>(15)</sup>, RoHS<sup>(16)</sup>**

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# Kuri Tec®

## A1687 Series 800 PSI PVC/Polyurethane Blend Reinforced Spray Hose



Unique PVC/polyurethane blended core provides excellent resistance to hydrocarbon-based tree spray, lawn care and pest control chemicals. Reinforced with high tensile strength yarn. PVC ribbed cover provides abrasion resistance.

### Construction:

- Tube — Black PVC/polyurethane blend.
- Reinforcement — High tensile strength yarn two-pass spiral construction.
- Cover — Ribbed PVC.

### Features:

- Extremely tough and kink resistant.
- PVC/polyurethane blended core — provides better chemical resistance than comparable all-PVC hoses.
- Ribbed cover provides excellent abrasion-resistance.

- 800 PSI working pressure.
- Pin-pricked cover vents vapor . . . helps prevent ballooning.
- Silicone-free.
- One-piece lengths.
- Phthalate Free!

### Applications:

- Tree and orchard spraying.
- Agricultural spraying.
- Commercial weed spraying.



Service Temperature Range: +15°F (-10°C) to +160°F (+70°C)

### Nominal Specifications

Series No.	Size Code	Nominal ID		Nominal OD		Max. Working Pressure† (PSI)		Standard Coil Lengths	Approx. Wt. per Pkg.	
		(In)	(mm)	(In)	(mm)	@ 70°F (20°C)	@ 122°F (50°C)		300 ft. Coil	400 ft. Coil
A1687	06	3/8	9.5	.650	16.5	800	450	300 or 400 ft.	41 lbs.	54 lbs.
A1687	08	1/2	12.7	.850	21.6	800	450	300 or 400 ft.	68 lbs.	90 lbs.
A1687	10	5/8	15.9	1.030	26.2	800	400	300 ft.	96 lbs.	—
A1687	12	3/4	19.1	1.170	29.7	800	400	300 ft.	126 lbs.	—

† Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Note: Use of hydraulic or reusable-type fittings are not recommended for coupling Kuri Tec® hose products. Hose claims involving use of these fittings will be disallowed.

NOTE: For details of the following compliances mentioned above, refer to footnotes listed on page 63.

**PHthalate FREE<sup>(15)</sup>**

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REINFORCED LOW & HIGH PRESSURE SPRAY/TRANSFER HOSES



**Kuri Tec®**

**A1661 Series  
600 PSI PVC/Polyurethane  
Blend Reinforced  
Spray Hose**

Unique PVC/polyurethane blended core provides excellent resistance to hydrocarbon-based lawn care and pest control chemicals. Reinforced with high tensile strength yarn. PVC ribbed cover provides abrasion resistance.

**Construction:**

- Tube – Black PVC/polyurethane blend.
- Reinforcement – High tensile strength yarn two-pass spiral construction.
- Cover – Ribbed PVC.

**Features:**

- Extremely tough and kink resistant.
- PVC/polyurethane blended core – provides better chemical resistance than comparable all-PVC hoses.
- Ribbed cover provides excellent abrasion-resistance.

- 600 PSI working pressure.
- Pin-pricked cover vents vapor . . . helps prevent ballooning.
- Silicone-free.
- One-piece lengths.
- Phthalate Free!

**Applications:**

- Agricultural spraying.
- Commercial weed spraying.
- Pest control spraying.

Service Temperature Range: +15°F (-10°C) to +160°F (+70°C)

**Nominal Specifications**

Series No.	Size Code	Nominal ID		Nominal OD		Max. Working Pressure† (PSI)		Standard Coil Lengths	Approx. Wt. per Pkg.	
		(In)	(mm)	(In)	(mm)	@ 70°F (20°C)	@ 122°F (50°C)		300 ft. Coil	400 ft. Coil
A1661	06	3/8	9.5	.650	16.5	600	350	300 or 400 ft.	41 lbs.	54 lbs.
A1661	08	1/2	12.7	.790	20.1	600	350	300 or 400 ft.	57 lbs.	76 lbs.
A1661	10	5/8	15.9	1.030	26.2	600	300	300 ft.	96 lbs.	—
A1661	12	3/4	19.1	1.170	29.7	600	300	300 ft.	126 lbs.	—

† Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Note: Use of hydraulic or reusable-type fittings are not recommended for coupling Kuri Tec® hose products. Hose claims involving use of these fittings will be disallowed.

NOTE: For details of the following compliances mentioned above, refer to footnotes listed on page 63.

**PHthalate FREE<sup>(15)</sup>**

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# Kuri Tec®

## K4131, K4132, K4137 Series 600 PSI PVC Spray Reinforced Hose

**Performance-Plus  
Three Year Warranty!**  
(See Page 52 for Details)

**LAWN  
& PEST  
CONTROL  
SPRAYING!**



**Phthalate  
FREE**

**REINFORCED LOW & HIGH PRESSURE SPRAY/TRANSFER HOSES**

Excellent quality spray hoses made with premium quality PVC compounds, ideally-suited for lawn and ornamental spray applications using wettable powder chemicals. (Not recommended for high pressure tree spray applications.)

**Construction:**

- K4131 - Yellow, K4132 - Orange and K4137 - Mint Green.
- Tube — Yellow, Orange, or Mint Green PVC.
- Reinforcement — High tensile strength yarn; one-pass spiral construction.
- Cover — Yellow, Orange, or Mint Green ribbed PVC.

**Features:**

- Economically priced.
- Ribbed cover for reduced drag and increased flexibility.
- Pin-pricked cover vents vapor . . . helps prevent ballooning.
- Non-marking.

- Light weight — easily coiled after use.
- Longitudinal reinforcing yarns enhance coupling retention and reduce elongation under pressure.
- Chemical resistance of quality PVC for the transfer or spraying of “wetable powder” type chemicals. Not recommended for use with emulsifiable chemicals based on hydrocarbon carriers.
- Silicone-free.
- One-piece lengths.
- Phthalate Free!

**Applications:**

- Lawn spraying.
- Agricultural spraying.
- Vineyard spraying.
- Nursery spraying.
- Building washdown.

**Service Temperature Range: +25°F (-5°C) to +150°F (+65°C)**

Standard Stock Colors			Size Code	Nominal ID		Nominal OD		Max. Working Pressure† (PSI)		Standard Coil Lengths	Approx. Wt. per Pkg.	
K4131 Yellow	K4132 Orange	K4137 Mint Green		(In)	(mm)	(In)	(mm)	@ 70°F (20°C)	@ 122°F (50°C)		300 ft.	400 ft.
✓	✓	✓	06	3/8	9.5	.625	15.9	600	250	300 or 400 ft.	35 lbs.	46 lbs.
✓	✓	✓	08	1/2	12.7	.790	20.0	600	250	300 or 400 ft.	54 lbs.	72 lbs.

† **Note:** Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

**Note:** Use of hydraulic or reusable-type fittings are not recommended for coupling Kuri Tec® hose products. Hose claims involving use of these fittings will be disallowed.

**NOTE:** For details of the following compliances mentioned above, refer to footnotes listed on page 63.

**PHthalate FREE<sup>(15)</sup>**

Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.

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**Performance-Plus  
Three Year Warranty!**  
(See Page 52 for Details)

**Kuri Tec®**

**A1628 Series**

**300 PSI PVC/Polyurethane  
Blend Reinforced  
Spray Hose**

**Phthalate  
FREE**

**PEST  
CONTROL**

Unique PVC/polyurethane blended core provides excellent resistance to hydrocarbon-based lawn care and pest control chemicals. Reinforced with high tensile strength yarn. PVC ribbed cover provides abrasion resistance.

**Construction:**

- Tube — Black PVC/polyurethane blend.
- Reinforcement — High tensile strength yarn.
- Cover — Ribbed PVC.

**Features:**

- Extremely tough and kink resistant.
- PVC/polyurethane blended core — provides better chemical resistance than comparable all-PVC hoses.

- Ribbed cover provides excellent abrasion-resistance.
- 300 PSI working pressure.
- Pin-pricked cover vents vapor . . . helps prevent ballooning.
- Silicone-free.
- One-piece lengths.
- Phthalate Free!

**Applications:**

- Pest control spraying.
- Agricultural spraying.
- Commercial weed spraying.

Service Temperature Range: +15°F (-10°C) to +160°F (+70°C)

**Nominal Specifications**

Series No.	Size Code	Nominal ID		Nominal OD		Max. Working Pressure† (PSI)		Standard Coil Lengths	Approx. Wt. per Pkg.	
		(In)	(mm)	(In)	(mm)	@ 70°F (20°C)	@ 122°F (50°C)		300 ft. Coil	400 ft. Coil
A1628	06	3/8	9.5	.625	15.9	300	150	300 or 400 ft.	36 lbs.	47 lbs.
A1628	08	1/2	12.7	.770	19.6	300	150	300 or 400 ft.	49 lbs.	65 lbs.
A1628	12	3/4	19.1	1.060	26.9	200	100	300 ft.	80 lbs.	—
A1628	16	1	25.4	1.306	33.2	200	100	200 ft.	67 lbs.	

† Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Note: Use of hydraulic or reusable-type fittings are not recommended for coupling Kuri Tec® hose products. Hose claims involving use of these fittings will be disallowed.

NOTE: For details of the following compliances mentioned above, refer to footnotes listed on page 63.

**PHthalate FREE<sup>(15)</sup>**

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## K4350 Series EVA Yarn-Reinforced Spray Hose



A yarn reinforced EVA hose suitable for low pressure spraying and transfer of agricultural chemicals.

### Construction:

- Tube — Translucent EVA copolymer.
- Reinforcement — High tensile strength yarn.
- Cover — Translucent EVA copolymer.

### Features:

- Highly flexible.
- Higher working pressures than non-reinforced EVA tubing.
- Excellent low temperature flexibility.
- Excellent chemical-resistance.

- Silicone-free.
- One-piece lengths.
- RoHS<sup>(16)</sup> compliant.
- Phthalate Free!

### Applications:

- Agricultural spray applications, including anhydrous ammonia fertilizer.
- Low pressure lawn spray.
- Low pressure transfer of liquids and gases, including chemicals.

Service Temperature Range: -30°F (-35°C) to +150°F (+65°C)

### Nominal Specifications

Series No.	Size Code	Nominal ID		Nominal OD		Max. Working Pressure† (PSI)		Standard Lengths		Approx. Wt. per Pkg.	
		(In)	(mm)	(In)	(mm)	@ 70°F (20°C)	@ 122°F (50°C)	Coil	Reel	Coil	Reel
K4350	06	3/8	9.5	.594	15.1	300	100	300 ft.	500 ft.	22 lbs.	41 lbs.
K4350	08	1/2	12.7	.719	18.3	250	75	300 ft.	500 ft.	26 lbs.	51 lbs.
K4350	12	3/4	19.1	.970	24.6	150	40	300 ft.	—	36 lbs.	—
K4350	16	1	25.4	1.313	33.4	150	30	200 ft.	—	47 lbs.	—

† Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

NOTE: For details of the following compliances mentioned above, refer to footnotes listed on page 63.

**PHthalate Free<sup>(15)</sup>, RoHS<sup>(16)</sup>**

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**Phthalate FREE**

**Performance-Plus  
Three Year Warranty!**  
(See Page 52 for Details)

**Kuri Tec®**

**A9350 Series  
Polyethylene  
Yarn-Reinforced Dual Line  
Spray Hose**

Special light weight dual line reinforced hose which offers chemical resistance along with ease of handling for spraying of herbicides and fertilizers.

**Construction:**

- Tube — Special translucent LLDPE.
- Reinforcement — High tensile strength yarn.
- Cover — Special “low friction” translucent copolymer.

**Features:**

- Extremely light weight.
- Exceptionally low resistance to dragging.

- Both core and cover offer excellent chemical-resistance and resistance to environmental stress cracking.
- Silicone-free.
- One-piece lengths.
- RoHS<sup>(16)</sup> compliant.
- Phthalate Free!

**Applications:**

- Spot herbicide treatment, while fertilizing.
- Automatic dilution of liquid concentrate at the spray head.

**Service Temperature Range: -30°F (-35°C) to +150°F (+65°C)**

**Nominal Specifications**

Part No.	Line 1				Line 2				Max. Working Pressure† (PSI)		Standard Length Coils	Approx. Wt. per Pkg.
	Nominal ID (In)	Nominal OD (mm)	Nominal ID (In)	Nominal OD (mm)	Nominal ID (In)	Nominal OD (mm)	Nominal ID (In)	Nominal OD (mm)	@ 70°F (20°C)	@ 122°F (50°C)		
									A9350-04060-03S	1/4		
A9350-04060-04S	1/4	6.5	.457	11.6	3/8	9.5	.593	15.1	250	100	400 ft.	49 lbs.
A9350-04080-03S	1/4	6.5	.457	11.6	1/2	12.7	.740	18.8	250	100	300 ft.	46 lbs.
*A9350-04080-04S	1/4	6.5	.457	11.6	1/2	12.7	.740	18.8	250	100		

**Note:** Individual components of Series A9350 Dual Line Spray Hose are available on special order as **Series A1710S**.

**† Note:** Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

**NOTE:** For details of the following compliances mentioned above, refer to footnotes listed on page 63.

\*Non stock item.

**PHthalate FREE<sup>(15)</sup>, RoHS<sup>(16)</sup>**

**Kuri Tec® Performance – Plus Warranty Program**

Subject to the provisions below, products sold or distributed by Seller are warranted to be free from defects in material and workmanship for the following time periods:

- For Kuri Tec® Series K4131, K4132, K4137, A1628, A1661, A1687 and A9350 spray hoses — a period of three years from the date of purchase.

Use of hydraulic or reusable-type fittings are not recommended for coupling Kuri Tec® spray hose products. Hose claims involving use of these fittings will be disallowed.

A phone call to our Customer Service Department; in the U.S., Kuriyama of America, Inc., Schaumburg, IL (847)-755-0360 or in Canada, (519) 753-6717 Kuri Tec Corporation, Brantford, ON, Canada should be made to report any product claims. "The Seller, Kuriyama of America, Inc. or Kuri Tec Corporation, (please refer to address information on back page of catalog) may require a prepaid return of the affected hose before the following refund/credit schedule can be implemented. Note: Any hose that is to be returned must be fully drained. MSDS, Material Safety Data Sheets must also be submitted to Kuriyama of America, Inc. or Kuri Tec Corporation (please refer to address information on back page of catalog), via mail or fax prior to any authorized return.

For claims made the Seller's liability is limited exclusively to the following:

1. For claims made during the first year: Full replacement of hose or a credit of the original purchase price at Seller's option.

2. For claims made during the second year, for spray hoses having a three year warranty: A credit for two thirds of the original purchase price will be refunded as a credit.

3. For claims made during the third year, for spray hoses having a three year warranty: A credit for one third of the original purchase price will be refunded as a credit.

This warranty is in lieu of and excludes all other warranties, expressed, implied, statutory, or otherwise created under applicable law including, but not limited to, the warranty of merchantability and the warranty of fitness for a particular purpose. In no event shall seller or the manufacturer of the product be liable for special, incidental, or consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of seller and/or the manufacturer of the product, unless specifically provided herein. In addition, this warranty shall not apply to any products or portions thereof which have been subjected to abuse, misuse, improper installation, maintenance, or operation, electrical failure or abnormal conditions, and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved by seller, or used in any manner inconsistent with the provisions of the "Cautionary Statement" above or any instructions or specifications provided with or for the product. No distributor is authorized to extend any other warranty on behalf of the Seller.

2/2005

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## Considerations for Selecting and Using Spray Hose

One of the most demanding hose applications is chemical spray, as seen in lawn care and pest control. The hose is subject to both internal and external stress. Internal hose stress results from the high pressures used and the aggressive nature of the chemicals. External stress is applied to the hose by pulling and dragging the hose, as well as exposure to the freshly applied chemicals.

Several Kuri Tec® hoses are offered for use in chemical spray applications and, in order to obtain optimum performance and service life, it is essential that the proper hose be selected and that proper care be taken in handling the hose.

### What type of chemical is being conveyed?

In general, lawn care and pest control chemicals fall into two classifications, based on the physical form of the substance: wettable powders (WP) and emulsifiable liquid concentrates (EC).

Wettable powders are supplied in dry powder or granular form and are dissolved in water to create a sprayable solution. The substances are generally stable when in solution and will not “settle out” when allowed to stand. All of our pest control, lawn, and tree chemical spray hoses will handle most of these wettable concentrates in aqueous solutions at normal suggested concentrations.

Emulsifiable concentrates are supplied in a liquid form in which the herbicide or pesticide is dissolved in a carrier that is itself a solvent or oil-based substance. When mixed with water, these substances become “emulsions” in which the chemicals are not truly dissolved in the water. When allowed to stand, the chemicals will separate from the water, generally floating to the top. The emulsified carriers themselves have an effect on the hose’s core tube and, in combination with the other chemicals being used, can have a significant effect on the hose material when they separate and form a more concentrated phase.

For emulsifiable concentrate chemicals, we suggest the use of Kuri Tec hoses using PVC/Polyurethane blend compounds in the core tube, such as Series A1628, A1661 and A1687. “All PVC” spray hoses such as Series K4131

are not suggested for use with these chemicals, because of the possibility of phase separation in the mixture.

Regardless of the type of hose used with the emulsifiable concentrate chemicals, it is recommended that the hose be drained if it is going to stand for an extended period of time, since even on a reel the chemicals may separate out of the water emulsion and collect in concentrated bands at the top of the reel.

**NOTE:** All Kuri Tec hose suggestions are for aqueous solutions or emulsions of the chemical herbicide, pesticide or fertilizer in the suggested concentrations. For transfer of an emulsifiable concentrate in its pure form, a premium chemical spray hose such as Series A4086, with its polyethylene liner, is suggested.

### At what working pressure and operating temperature will the hose be used?

All hoses, but particularly thermoplastic hoses, are affected by temperature. As the operating temperature rises, the material will soften slightly and the working and burst pressures will be reduced. It is not unusual for the hose temperature in a lawn spraying application to rise to 120° F. in summer. The individual pressure rating tables should be consulted to determine the maximum working pressure at 122° F. In general, one can expect a reduction of 40% to 60% in the working pressure rating at 120° F., when compared to the working pressures for the same hose at 70° F. This factor must be considered when selecting the proper hose.

### What type of fittings should be used?

As explained in the Fitting Compatibility Guide on pages 64-65, a double-barbed fitting held in place with two band clamps appears to be the best choice for Kuri Tec spray hoses. In addition, the use of spring guards is highly recommended in order to prevent kinking of the hose at the fittings. Properly crimped ferrules over multi-barbed fittings are also suitable, provided a gap is provided at the end of the ferrule to avoid “wicking” of the fluid along the yarn.

## Summary of Suggested Spray Hose Applications

Series	Description						Suitability	
	Core Materials	Jacket Properties				Working Pressure† (PSI @ 70°F)	Wettable Powders	Emulsifiable Liquids
		Material	Color	Surface	Perforations			
K3150	PVC	PVC	Clear	Smooth	No	250	Yes	No
K4131, 32, 37	PVC	PVC	Yellow	Ribbed	Yes	600	Yes	No
A1628	PVC/TPU	PVC	Grey	Ribbed	Yes	300	Yes	Yes
A1661 (i)	PVC/TPU	PVC	Yellow	Ribbed	Yes	600	Yes	Yes
A1687 (i)	PVC/TPU	PVC	Green	Ribbed	Yes	800	Yes	Yes
A4086 (i)	LLDPE	TPE	Blue	Smooth	Yes	800	Yes	Yes (ii)
A1710S	LLDPE	EVA	Translucent	Smooth	No	250	Yes	Yes (ii)
K4350	EVA	EVA	Translucent	Smooth	No	150 - 250	Yes	Yes (ii)

† **Note:** Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

**NOTE :** (i) Two-pass reinforcement provides improved kink resistance and pressure performance.

(ii) Suitable for transfer of emulsifiable concentrate in undiluted form.