



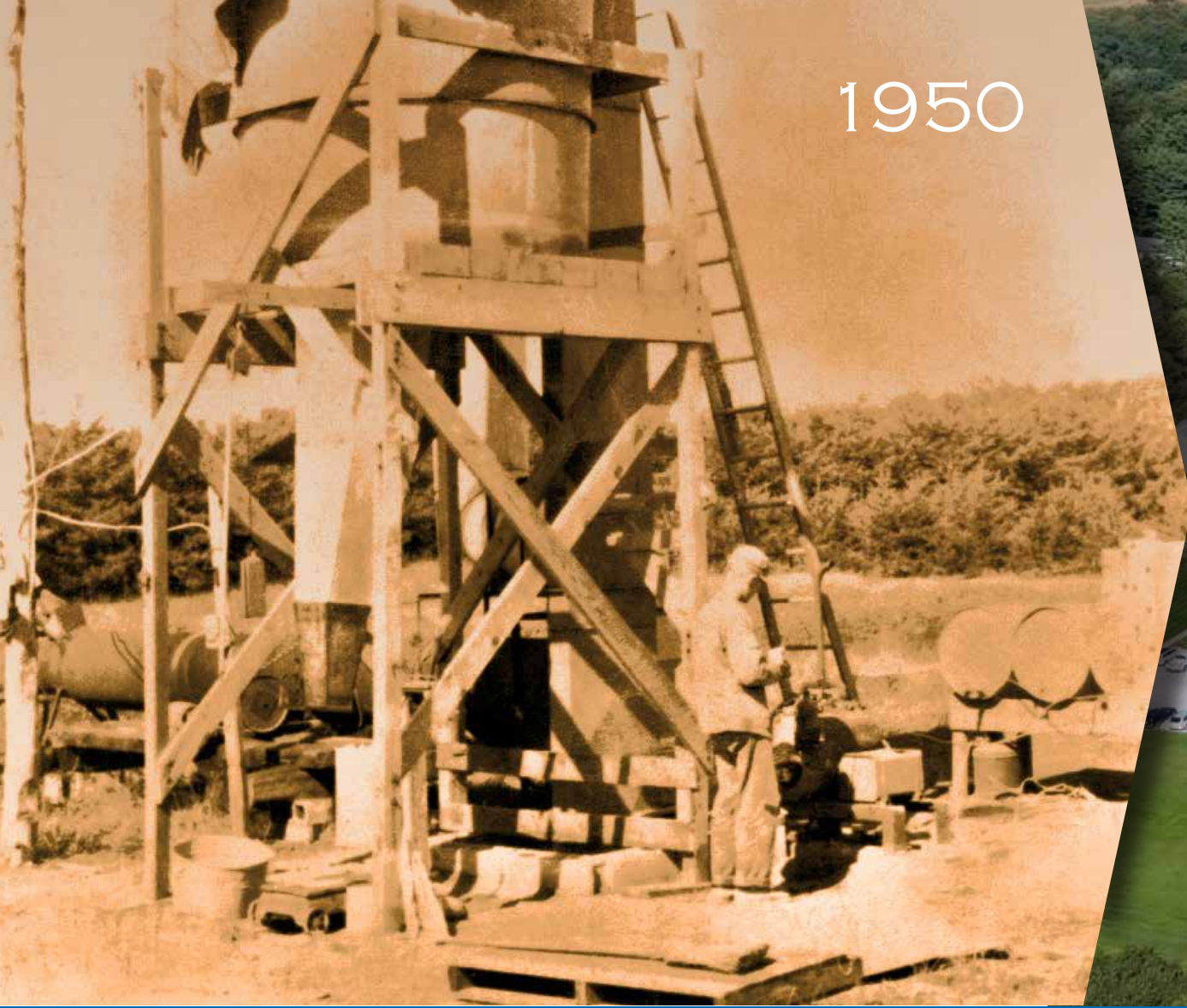
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PRODUCT CATALOG



OUR FAMILY OF BRANDS

1950



## CARING FOR TURF IS A SHAW'S® FAMILY TRADITION.



Since 1950, the Shaw family has been recognized for quality lawn and professional turf care products.

Today, the third generation of the family is prepared to meet the challenges of the 21st century in environmental stewardship, quality packaging and structural management programs.

Knox Fertilizer leads the lawn-and-garden plant food industry with rigid specification standards and quality release programs. Quality checks are performed on incoming raw materials, in-process production and analytical pass/fail release protocols. We guarantee that package claims are met and the products you buy are consistent day in and day out.

Our main facilities are in northwest Indiana, near Chicago. Being on the outskirts of this world trade center, we're ideally positioned to buy high-quality ingredients at low cost, and manufacture and ship products that provide the utmost in value for our customers.





TODAY

## WE'RE PROUD OF OUR PAST AND POISED FOR THE FUTURE.

Knox Fertilizer has been in the specialty segment of the plant food business for over half a century. We've positioned ourselves for the next half-century with continuing investments in innovative production processes, product quality, structural management and environmental stewardship. This philosophy of reinvestment in the company has helped our products become recognized as leaders in consistent performance, quality and reliability.

We're committed to helping you meet the challenges of golf course turf management.

Today, turf managers are facing more turf management challenges than ever. Use is increasing, while water usage and environmental requirements are becoming more stringent. Knox is ready to help you meet all current and future challenges.



We have the products; we have the understanding. And we're ready to help you grow your best.

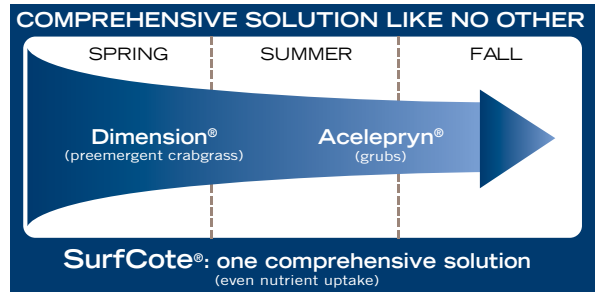


Founded in 1950, Shaw's has always been our premium line of fertilizers for quality lawn and professional turf care products. Our Shaw's brand contains controlled-release technology like XRT® and SurfCote® to deliver nutrients throughout the growing season. We offer prominent products like One & Done™ and Platinum under the Shaw's brand name. We always use branded chemistry in our value added fertilizers to offer you the peace of mind in your weed & insect control.



KNOX FERTILIZER COMPANY

Season-long fertilizer, weed and insect control for sports turf managers. One early shot of Shaw's Turf Food with Acelepryn® and Dimension® takes care of Crabgrass and grubs for the entire season. The advanced controlled release properties of SurfCote and XRT give sports turf managers the flexibility to address increasing regulations that restrict fertilizer and pesticide applications while schools are in session and/or require advance notification of parents. One early application of Shaw's Turf Food with added Acelepryn and Dimension feeds turf while it takes care of crabgrass, grubs, and other weed and insect pests during the playing season.



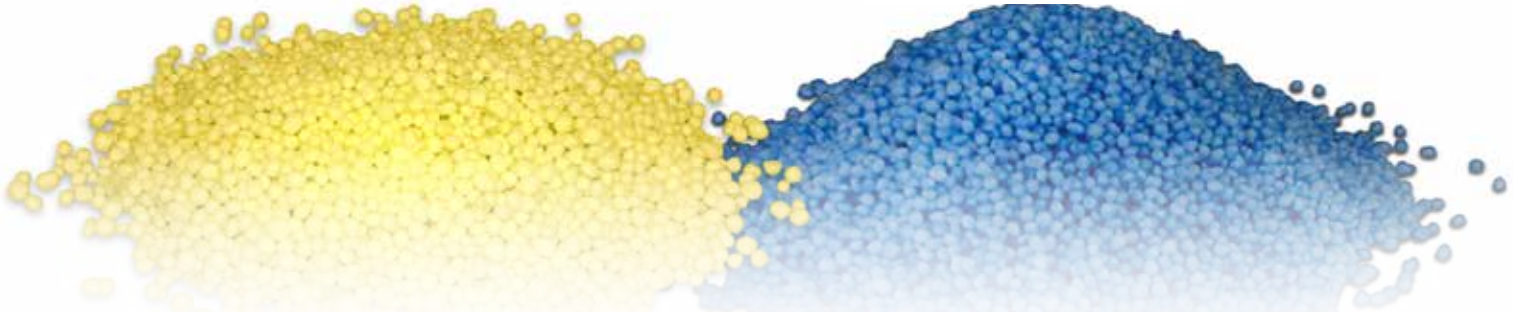
Gro-Gard® is a proprietary blend of two bio-active amino acids that help regulate nutrient uptake and movement within the plant. With greater nutrient availability, plants can achieve their full genetic potential for growth and vigor. With Gro-Gard, roots grow deeper and with greater mass, delivering a healthier, lusher and greener course all season long. Your turf is protected, even during the peak golf season, because nutrient delivery is enhanced during the entire season. Gro-Gard, which is formulated with a fertilizer, gives you the richest, greenest fairways and greens. And if you need flexibility, Gro-Gard is also available in Shaw's complete line of preemergent fertilizers that provide weed and insect control. Gro-Gard is now available in a liquid concentrate.



Knox Fertilizer is pleased to now offer liquid fertilizers. Shaw's Nutritional Liquids line-up offers a selection of many traditionally utilized liquid fertilizers as well as our own proprietary liquid solutions. Shaw's Nutritional Liquids offer the quality customers have come to expect from Knox Fertilizer at competitive price points. This line of products is rapidly expanding so contact your representative if you are looking for a product not listed.

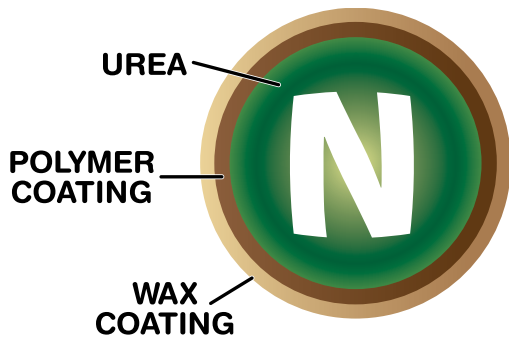
## OUR PARTNERS IN CHEMISTRY



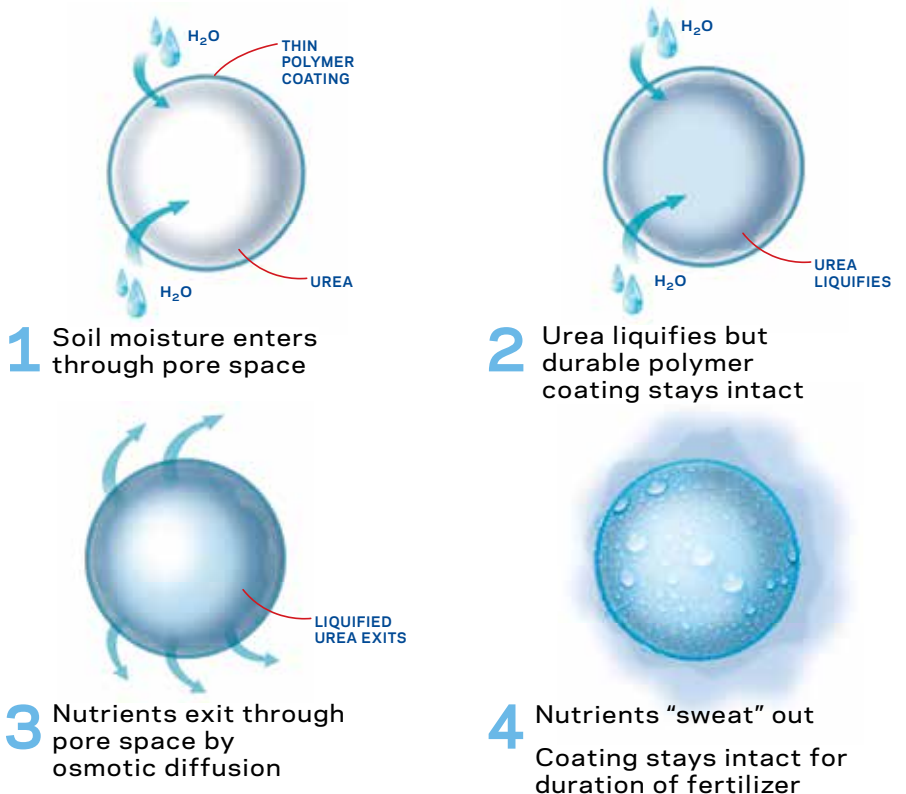


THE PATENTED POLYMER COATING USED WITH XRT<sup>®</sup> AND SURFCOTE<sup>®</sup> RELEASES NITROGEN IN THE SAME REGULAR PATTERN THAT REGULATES TURF DEMAND FOR NITROGEN.

### PCU STATE OF THE ART TECHNOLOGY



Whether you need 90, 120 or 180 days of consistent, time-released fertilizer, Shaw's brand fertilizers will meet your needs.





# GET THE XRT<sup>®</sup> ADVANTAGE!

Extended Release Fertilizer Technology

## XRT<sup>®</sup>

- Epoxy Coating Technology
- Release range up to 3 months
- Consistent predictable release up to 90 days
- Unaffected by irrigation or rainfall
- Extremely durable coating
- Patented Coating Technology
- Very, very low burn potential
- Release by Osmotic Diffusion



VS.



## SULFUR COATED UREA:

- Will release much faster than Polymer coating
- One release range (4-8 weeks)
- Unpredictable nitrogen release due to contact with water/rainfall and coating breakage
- Release by catastrophic failure of coating
- Will not deliver a constant nitrogen feeding during product lifespan
- Water penetrates the coating – the nitrogen release is rapid
- 1960's technology



[www.knoxfert.com](http://www.knoxfert.com)

## XRT<sup>®</sup> EXTENDED-RELEASE FERTILIZER TECHNOLOGY

Products with the XRT technology extend nutrient release by up to 90 days, keeping turf and other crops healthy, lush and green all season long. With XRT, plants consistently receive the nutrients they need, when they need them, saving you time and money for multiple applications.

### How it works.

XRT uses an innovative polymer resin to provide temperature-dependent nutrient release. As temperatures rise during the season, urea nitrogen is

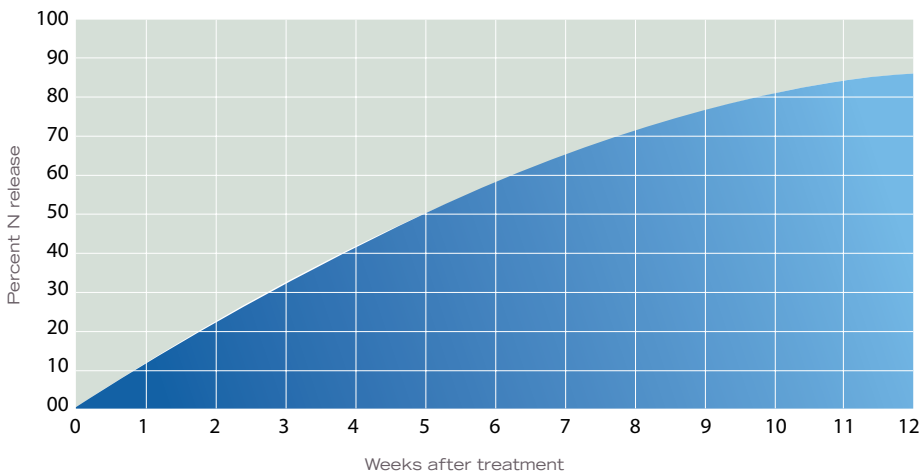
released at a consistent rate, matching nutrient demands of turf and specialty crops. After complete release, the polymer decomposes into naturally occurring compounds.

### The XRT<sup>®</sup> Advantage:

- Uniform color and growth.
- Saves labor, time and energy.
- Improves nutrient efficiency.
- Improves environmental stewardship.
- Greener, healthier turf and specialty crops.
- Consistent release of nutrients for up to 90 days.
- Less potential loss of nutrients to air and groundwater.
- Enhances nutrient uptake through gradual nutrient release.
- Reduces N losses due to ammonia volatilization and leaching.

### NITROGEN RELEASE VS. TIME

XRT





## Premium Blended Fertilizers with XRT<sup>®</sup> Controlled-Release Nitrogen Technology

Product Code	Analysis	SGN Size		Bag Weight (lbs.)	Coverage per Bag (sq. ft.)	Nitrogen Source	Units Slow Release	% Slow Release	Product (lbs. per 1,000 sq. ft.)	Nutrients (lbs. per 1,000 sq. ft.)			K Source
										N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	



### Shaw's<sup>®</sup> Straight XRT<sup>®</sup> Materials

1496500	44-0-0	230		50	22,000	XRT	44.0 (N)	100%	2.28	1.00	0.00	0.00	—
1496539	44-0-0	150		50	22,000	XRT	44.0 (N)	100%	2.28	1.00	0.00	0.00	—



### Shaw's<sup>®</sup> XRT<sup>®</sup> Blends (SGN Size 230)

1504259	14-25-10	230		50	12,500	XRT	3.50	25%	4.00	0.56	1.00	0.40	MOP
1519309	24-0-5 2%Fe	230		50	12,500	XRT	7.2	30%	4	0.96	0.00	0.20	MOP
1519669	24-0-12	230		50	12,500	XRT	8.4	35%	4	0.96	0.00	0.48	SOP
1550709	30-0-6	230		50	15,000	XRT	15.0	50%	3.33	1.00	0.00	0.20	MOP
1566399	33-3-6	230		50	16,500	XRT	16.50	50%	3.00	1.00	0.09	0.18	MOP
1567599	34-0-10	230		50	15,000	XRT	26.86	79%	3.30	1.15	0.00	0.33	MOP
1550749	30-0-10	230		50	15,000	XRT	12.0	40%	3.33	1.00	0.00	0.33	MOP
6542019	30-0-10	230		50	15,000	XRT	24.0	80%	3.33	1.00	0.00	0.33	MOP
1538579	28-0-3 35% BIO	230		50	14,000	XRT	14.0	50%	3.57	1.00	0.00	0.10	MOP



### Shaw's<sup>®</sup> XRT<sup>®</sup> Fairway Blends with Gro-Gard<sup>®</sup> (SGN Size 150)

6630909	24-0-8	150		50	12,500	XRT	15.6	65%	4	0.96	0.00	0.32	SOP
6644609	25-0-5	150		50	12,500	XRT	12.5	50%	4	1.00		0.20	SOP
6646569	28-0-18	150		50	14,000	XRT	28.0	100%	3.57	1.00	0.00	0.64	SOP

XRT = Polymer-Coated Urea (Up to 3-Month Nitrogen Release)    MOP = Murate of Potash    SOP = Sulfate of Potash





# SURFCOTE® CONTROLLED-RELEASE TECHNOLOGY DELIVERS NUTRIENTS THROUGHOUT THE SEASON.

SurfCote has the most advanced controlled release fertilizer technology — an innovative and proprietary polymer resin encapsulation with a sustained release. Each fertilizer granule is encased in a durable microthin shell that allows soil moisture to gradually diffuse into the granule, dissolving the urea fertilizer. Rising temperatures liquefy the urea, which remains encapsulated, then slowly and consistently passes through the polymer to meet the ongoing nutrient demands of your turf.

Fertilizer granules with SurfCote are tougher than sulfur-based compounds. The integrity of the shell is protected against breakage with normal handling and abrasion. Reduced loss means more nutrients going to work on your turf, and less opportunity for leaching. With SurfCote, every blade of grass gets the nutrients it needs, when it needs them most.

### This means:

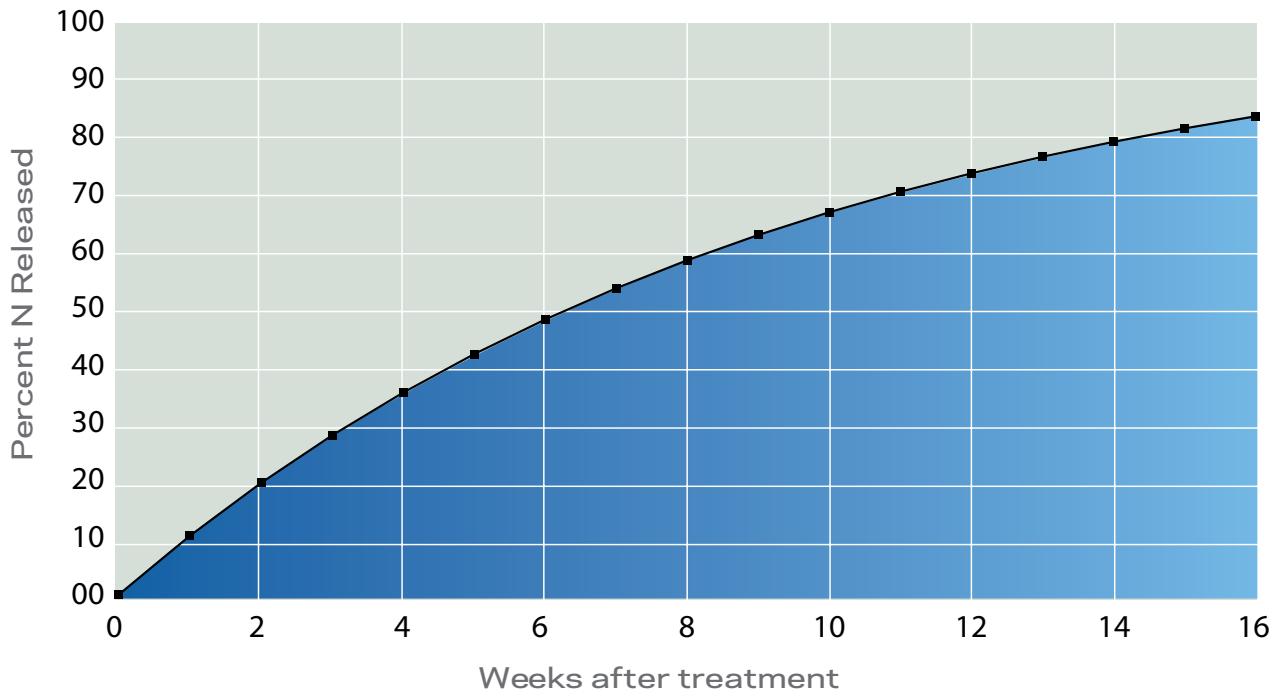
- Fewer applications, saving time, labor and energy costs.
- Greater uptake and more efficient use of fertilizer.
- Improved environmental stewardship through “on demand” release.
- Reduced potential for loss of nutrients in air and groundwater.

### The SurfCote® Advantage:

- Reduces nitrogen loss due to ammonia volatilization and leaching.
- Improves nitrogen efficiency.
- Consistent release of nutrients throughout the season.
- Delivers uniform color and growth.
- Extremely durable shell for more consistent performance.
- Saves time and money.

## NITROGEN RELEASE VS. TIME

SURFCOTE N-4







## Premium Blended Fertilizers with Surf® Controlled-Release Technology

Product Code	Analysis	SGN Size	Bag Weight (lbs.)	Coverage per Bag (sq. ft.)	Nitrogen Source	Units Slow Release	% Slow Release	Product (lbs. per 1,000 sq. ft.)	Nutrients (lbs. per 1,000 sq. ft.)			K Source
									N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	



### Shaw's® Straight Surf® Materials with

5589219	44-0-0	230	50	17,600	Surf N-4	44.0 (N)	100%	2.84	1.25	0.00	0.00	—
5589209	44-0-0	150	50	17,600	Surf N-4	44.0 (N)	100%	2.84	1.25	0.00	0.00	—
5588809	43-0-0	230	50	10,750	Surf N-6	43.0 (N)	100%	4.65	2.00	0.00	0.00	—
5500099	0-0-48	150	50	19,230	—	48.0 (K <sub>2</sub> O)	100%	2.60	0.00	0.00	1.25	PC-SOP
5550085	0-0-48	230	50	19,230	—	48.0 (K <sub>2</sub> O)	100%	2.60	0.00	0.00	1.25	PC-SOP
5650309	0-0-48	100	50	19,230	—	48.0 (K <sub>2</sub> O)	100%	2.60	0.00	0.00	1.25	PC-SOP



### Shaw's® Surf® Blends with (SGN Size 230)

5500439	5-0-40	230	50	16,025	Surf N-4	5.0	100%	3.12	0.15	0.00	1.25	PC-SOP
5550759	30-0-15	230	50	12,000	Surf N-4	30.0	100%	4.16	1.25	0.00	0.62	SOP
5566109	33-0-12	230	50	13,190	Surf N-4	33.0	100%	3.79	1.25	0.00	0.45	MOP
5566149	33-0-12	230	50	13,190	Surf N-6	33.0	100%	3.79	1.25	0.00	0.45	SOP
5588109	36-0-6	230	50	12,000	Surf N-6	36.0	100%	4.16	1.50	0.00	0.25	MOP
5588509	38-0-6	230	50	15,195	Surf N-4	38.0	100%	3.29	1.25	0.00	0.19	SOP



### Shaw's® Surf® Fairway Blends with (SGN Size 150)

5614229	16-0-30	150	50	12,000	Surf N-4	16.0	100%	4.16	0.66	0.00	1.25	PC-SOP
5630509	24-0-22	150	50	9,600	Surf N-4	24.0	100%	5.21	1.25	0.00	1.14	SOP
5644419	25-0-18	150	50	9,600	Surf N-4	25.0	100%	5.00	1.25	0.00	0.90	PC-SOP
5646559	28-0-18	150	50	11,200	Surf N-4	28.0	100%	4.46	1.25	0.00	0.80	SOP
5647539	33-0-12	150	50	13,190	Surf N-4	33.0	100%	3.79	1.25	0.00	0.45	SOP

**Surf N-4** = Polymer-Coated Urea (Up to 4-Month Nitrogen Release)    **Surf N-6** = Polymer-Coated Urea (Up to 6-Month Nitrogen Release)

**MOP** = Murate of Potash    **SOP** = Sulfate of Potash    **PC-SOP** = Polymer-Coated Sulfate of Potash





CROSS TWO  
ITEMS OFF  
YOUR LIST.

IN INK.

One early shot takes care of crabgrass and grubs for the whole season. Five years of proven results with our early-application, season-long protection will give you the confidence that a clean golf course brings. To learn more, contact your local distributor.



## SEASON-LONG FERTILIZER AND CONTROL FOR SPORTS TURF MANAGERS.

One early shot of Shaw's® Turf Food with Acelepryn® and Dimension® takes care of crabgrass and grubs for the entire season. The advanced controlled-release properties of SurfCote® give sports turf managers the flexibility to address increasing regulations that restrict fertilizer and pesticide applications while schools are in session and/or require advance notification to parents. One early application of Shaw's Turf Food with added Acelepryn and Dimension feeds turf while it takes care of crabgrass, grubs, and other weed and insect pests during the playing season.

### With Acelepryn, you get:

- Season-long control of grubs, residual cutworm, residual sod webworm, annual bluegrass weevil and billbugs.
- Low impact on nontarget organisms, including birds, honeybees, fish and mammals.
- Low risk — Acelepryn is classified as Reduced Risk by U.S. EPA and Health Canada, Pest Management Regulatory Agency.

### With Dimension, you get:

- Excellent preemergence and early postemergence crabgrass control.
- Season-long control of other grasses and broadleaf weeds.
- No staining and low odor.





## Shaw's® One & Done™ Blends with Gro-Gard® and Insect and Preemergent Weed Control

Product Code	Analysis	Control Product	Acelepryn® A.I. per Acre	Control Product	Dimension® A.I. per Acre	Bag Weight (lbs.)	Coverage per Bag (sq. ft.)	Nitrogen Source	Units Slow Release	% Slow Release	Product (lbs. per 1,000 sq. ft.)	Nutrients (lbs. per 1,000 sq. ft.)			K Source
												N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	



### Shaw's® Surf® Blends with Gro-Gard® and Insect and Preemergent Weed Control (SGN Size 230)

5328319	40-0-0	.067% Acelepryn	0.10	.130% Dimension	0.20	50	14,520	Surf N-6	40.0	100%	3.40	1.36	0.00	0.00	—
5328999	36-0-6	.067% Acelepryn	0.10	.167% Dimension	0.25	50	14,520	Surf N-4	36.0	100%	3.40	1.23	0.00	0.20	PC-SOP
5329369	40-0-0	.067% Acelepryn	0.10	.222% Dimension	0.34	50	14,520	Surf N-6	40.0	100%	3.40	1.36	0.00	0.00	—
5329679	40-0-0	.067% Acelepryn	0.10	.253% Dimension	0.38	50	14,520	Surf N-6	40.0	100%	3.40	1.36	0.00	0.00	—



### Shaw's® Surf® Blends with Gro-Gard® and Insect and Preemergent Weed Control (SGN Size 150)

5328979	30-0-10	.067% Acelepryn	0.10	.167% Dimension	0.25	50	14,520	Surf N-4	36.0	100%	3.40	1.02	0.00	0.34	SOP
5328989	36-0-6	.067% Acelepryn	0.10	.167% Dimension	0.25	50	14,520	Surf N-4	36.0	100%	3.40	1.23	0.00	0.20	PC-SOP
5329289	30-0-10	.067% Acelepryn	0.10	.222% Dimension	0.33	50	14,520	Surf N-4	30.0	100%	3.40	1.02	0.00	0.34	SOP
5329609	30-0-10	.067% Acelepryn	0.10	.253% Dimension	0.38	50	14,520	Surf N-4	30.0	100%	3.40	1.02	0.00	0.34	SOP



### Shaw's® XRT® Blends with Gro-Gard® and Insect and Preemergent Weed Control (SGN Size 230)

6328719	0-0-7	.067% Acelepryn	0.10	.167% Dimension	0.25	50	14,520	—	0.0	—	3.40	—	0.00	0.24	MOP
6328869	30-0-0	.067% Acelepryn	0.10	.167% Dimension	0.25	50	14,520	XRT N-3	30.0	100%	3.40	1.02	0.00	0.00	—
6329579	30-0-0	.067% Acelepryn	0.10	.253% Dimension	0.38	50	14,520	XRT N-3	30.0	100%	3.40	1.02	0.00	0.00	—



### Shaw's® XRT® Blends with Gro-Gard® and Insect and Preemergent Weed Control (SGN Size 150)

6328729	0-0-7	.067% Acelepryn	0.10	.167% Dimension	0.25	50	14,520	—	0.0	—	3.40	—	0.00	0.24	SOP
6328879	30-0-0	.067% Acelepryn	0.10	.167% Dimension	0.25	50	14,520	XRT N-3	30.0	100%	3.40	1.02	0.00	0.00	—

Surf N-4 = Polymer-Coated Urea (Up to 4-Month Nitrogen Release) Surf N-6 = Polymer-Coated Urea (Up to 6-Month Nitrogen Release) XRT N-3 = Polymer-Coated Urea (Up to 3-Month Nitrogen Release)  
MOP = Murate of Potash SOP = Sulfate of Potash PC-SOP = Polymer-Coated Sulfate of Potash



## Shaw's® One & Done™ Blend with and Insect and Preemergent Weed Control

Product Code	Analysis	Control Product	Acelepryn® A.I. per Acre	Control Product	Dimension® A.I. per Acre	Bag Weight (lbs.)	Coverage per Bag (sq. ft.)	Nitrogen Source	Units Slow Release	% Slow Release	Product (lbs. per 1,000 sq. ft.)	Nutrients (lbs. per 1,000 sq. ft.)			K Source
												N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	



### Shaw's® XRT® Blends with Insect and Preemergent Weed Control (SGN Size 230)

1328909	17-0-5	.067% Acelepryn	0.10	.167% Dimension	0.25	50	14,520	XRT N-3	5.10	30%	3.40	0.58	0.00	0.17	MOP
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XRT N-3 = Polymer-Coated Urea (Up to 3-Month Nitrogen Release) MOP = Murate of Potash



## Shaw's® Premium Blends with Preemergent Weed Control

Product Code	Analysis	Control Product	% Active	Active Ingredient per Acre	Bag Weight (lbs.)	Coverage per Bag (sq. ft.)	Nitrogen Source	Units Slow Release	% Slow Release	Product (lbs. per 1,000 sq. ft.)	Nutrients (lbs. per 1,000 sq. ft.)			K Source
											N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	



### Shaw's® Surf® Blends with and Preemergent Weed Control (SGN Size 230)

5112069	5-0-40	Barricade	0.28%	0.5	50	11,111	Surf N-4	5.0	100%	4.50	0.22	0.00	1.80	PC-SOP
5112999	33-0-12	Barricade	0.28%	0.5	50	11,111	Surf N-4	33.0	100%	4.50	1.48	0.00	0.54	MOP
5113769	25-0-8	Barricade	0.38%	0.7	50	12,500	Surf N-4	25.0	100%	4.00	1.00	0.00	0.32	MOP
5113969	40-0-0	Barricade	0.38%	0.7	50	12,500	Surf N-6	40.0	100%	4.00	1.60	0.00	0.00	—
5114299	36-0-6	Dimension	0.10%	0.18	50	12,500	Surf N-6	36.0	100%	4.00	1.40	0.00	0.20	MOP



### Shaw's® Surf® Blends with and Preemergent Weed Control (SGN Size 150)

5114379	28-0-10	Dimension	0.13%	0.227	50	12,500	Surf N-4	28.0	100%	4.00	1.12	0.00	0.40	SOP
5121099	30-0-4	Ronstar	1.00%	2	50	10,893	Surf N-4	30.0	100%	4.59	1.48	0.00	0.18	SOP
5121379	30-0-4	Ronstar	1.50%	2	50	16,339	Surf N-4	30.0	100%	4.00	3.06	0.00	0.12	SOP



### Shaw's® XRT® Blends with and Preemergent Weed Control (SGN Size 230)

1112099	13-0-5	Barricade	0.28%	0.5	50	12,500	XRT	2.6	20%	4.00	0.52	0.00	0.20	MOP
1112499	20-0-4	Barricade	0.28%	0.5	50	12,500	XRT	7.0	35%	4.00	0.80	0.00	0.16	MOP
1112909	31-0-4	Barricade	0.28%	0.5	50	12,500	XRT	31.0	100%	4.00	1.24	0.00	0.16	MOP
1113269	15-0-5	Barricade	0.38%	0.66	50	12,500	XRT	3.8	25%	4.00	0.60	0.00	0.20	MOP
1114229	19-0-5	Dimension	0.10%	0.18	50	12,500	XRT	6.7	35%	4.00	0.76	0.00	0.20	MOP
1114379	20-0-4	Dimension	0.13%	0.23	50	12,500	XRT	7.0	35%	4.00	0.80	0.00	0.16	MOP
1130049	10-0-3	Prodiamine	0.38%	0.66	50	12,500	XRT	10.0	100%	4.00	0.40	0.00	0.12	MOP
1114359	10-0-3	Dimension	0.13%	0.23	50	12,500	XRT	10.0	100%	4.00	0.40	0.00	0.12	MOP



### Shaw's® XRT® Fairway Blends with and Preemergent Weed Control (SGN Size 150)

6113959	30-0-0	Barricade	0.38%	0.7	50	12,500	XRT	30.0	100%	4.00	1.20	0.00	0.00	—
6114369	25-0-10	Dimension	0.13%	0.2	50	14,160	XRT	25.0	100%	3.50	0.875	0.00	0.35	SOP
6114379	30-0-0	Dimension	0.13%	0.2	50	14,160	XRT	30.0	100%	3.50	1.05	0.00	0.00	—
6114459	25-0-10	Dimension	0.17%	0.3	50	14,535	XRT	25.0	100%	3.40	0.85	0.00	0.34	SOP

\* Always refer to the pesticide label for prescribed application rates. Those listed in the tables above are *only* a guide.

**Surf N-4** = Polymer-Coated Urea (Up to 4-Month Nitrogen Release)    **Surf N-6** = Polymer-Coated Urea (Up to 6-Month Nitrogen Release)    **XRT** = Polymer-Coated Urea (Up to 3-Month Nitrogen Release)

**MOP** = Murate of Potash    **SOP** = Sulfate of Potash    **PC-SOP** = Polymer-Coated Sulfate of Potash

## Shaw's® Premium Blends with Insect Control

Product Code	Analysis	Control Product	% Active	Active Ingredient per Acre	Bag Weight (lbs.)	Coverage per Bag (sq. ft.)	Nitrogen Source	Units Slow Release	% Slow Release	Product (lbs. per 1,000 sq. ft.)	Nutrients (lbs. per 1,000 sq. ft.)			K Source
											N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	



### Shaw's® Surf® Blends with and Insect Control (SGN Size 230)

5327969	33-0-12	Acelepryn	0.067%	0.1	50	14,520	Surf N-4	33.0	100%	3.40	1.12	0.00	0.40	MOP
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### Shaw's® Surf® Blends with and Insect Control (SGN Size 150)

5308549	33-0-10	Merit	0.20%	0.3	50	14,286	Surf N-4	33.0	100%	3.50	1.15	0.00	0.35	SOP
5327809	33-0-10	Acelepryn	0.067%	0.1	50	14,520	Surf N-4	33.0	100%	3.40	1.12	0.00	0.34	SOP



### Shaw's® XRT® Blends and Insect Control (SGN Size 230)

1308389	7-0-0	Merit	0.20%	0.3	50	14,286	Urea	0.0	0%	3.50	0.25	0.00	0.00	—
1308449	21-0-4	Merit	0.20%	0.3	50	14,286	XRT	10.5	50%	3.50	0.73	0.00	0.14	MOP
1327409	21-0-4	Acelepryn	0.07%	0.1	50	14,520	XRT	10.5	50%	3.40	0.71	0.00	0.13	MOP
1323009	21-0-5	Allectus®	0.225%	0.35	50	14,052	XRT	10.5	50%	3.50	0.73	0.00	0.17	MOP
1383429	21-0-3	Imida-Lamda	0.204%	0.31	50	14,520	XRT	13.65	65%	3.4	0.72	0.00	0.10	MOP
1312059	14-0-0	Mallet	0.200%	0.30	50	14,520	XRT	14.00	100%	3.4	0.48	0.00	0.00	—



### Shaw's® XRT® Fairway Blends with and Insect Control (SGN Size 150)

6327819	28-0-10	Acelepryn	0.067%	0.1	50	14,520	XRT	28.0	100%	3.40	0.95	0.00	0.34	SOP
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Surf N-4 = Polymer-Coated Urea (Up to 4-Month Nitrogen Release) XRT = Polymer-Coated Urea (Up to 3-Month Nitrogen Release)

MOP = Murate of Potash SOP = Sulfate of Potash

## Shaw's® Blends with Postemergent Herbicide

Product Code	Analysis	Control Product	% Active	Active Ingredient per Acre	Bag Weight (lbs.)	Coverage per Bag (sq. ft.)	Nitrogen Source	Units Slow Release	% Slow Release	Product (lbs. per 1,000 sq. ft.)	Nutrients (lbs. per 1,000 sq. ft.)			K Source
											N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	



### Shaw's® XRT® Blends with Viper® Postemergent Herbicide (SGN Size 150)

1281629	15-0-5	Viper®	1.58%	2.75	40	10,000	XRT	15.0	100%	4.00	0.60	0.00	0.20	MOP
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XRT = Polymer-Coated Urea (Up to 3-Month Nitrogen Release) MOP = Murate of Potash



### Gro-Gard® Liquid Concentrate (3-0-3)

Gro-Gard is now available in a liquid concentrate. Gro-Gard is a proprietary blend of a vegetable protein hydrolysate and key nutritional components; it activates other key amino acids that help regulate nutrient movement between plant cells. And with greater nutrient availability, plants can achieve their full genetic potential for growth and vigor. Gro-Gard protects your turf, optimizes nutrient uptake and movement within plants, and enhances overall plant health. Gro-Gard is a proven compound that optimizes a plant root mass and therefore increases the plants overall health.

### Liquid Slow Release

Shaw's nutritional liquids with slow release nitrogen derive slow-release nitrogen from clear liquid Triazone. Triazone nitrogen is released via methylene urease enzyme secreted by microbes. Typical release for most soils is 8-12 weeks. Triazone nitrogen means turf safety, increased nitrogen absorption, translocation and remobilization. Triazone is a proven slow release source used throughout turf, ornamental and agriculture.

Shaw's Nutritional Liquids				Nutrient lbs./ 1000 Sq. ft.									
Product Code	Analysis	Packaging	Coverage per gallon (Sq. ft.) at 0.5 lbs. N	Nitrogen Source	Units Slow Release	%Slow release	Ounces /1000 sq.ft.	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	P Source	K Source	Micro Nutrients
1731109	17-0-5	2.5g jug (2 per case), 275g mini bulk	3280	Urea	0	0%	39	0.5	0	0.15	N/A	MOP	0
1731139	17-0-5	2.5g jug (2 per case), 275g mini bulk	3280	Urea & Urea Triazone	8.5	50%	39	0.5	0	0.15	N/A	MOP	0
1731149	17-0-5	2.5g jug (2 per case), 275g mini bulk	3280	Urea & Urea Triazone	12.24	72%	39	0.5	0	0.15	N/A	MOP	0
1731529	18-3-6	2.5g jug (2 per case), 275g mini bulk	4000	Urea, Urea Triazone & NOP	9	50%	32	0.5	0.08	0.16	TPP	TPP & NOP	Fe, Mn, Cu,Zn
1730739	16-0-8	2.5g jug (2 per case), 275g mini bulk	3650	Urea	0	0%	35	0.5	0	0.23	N/A	MOP	Fe & Mn
1730309	12-0-12	2.5g jug (2 per case), 275g mini bulk	2600	Urea & NOP	0	0%	49	0.5	0	0.5	N/A	MOP & NOP	0
1730509	15-0-0 (6%Fe)	2.5g jug (2 per case), 275g mini bulk	25,600	Urea	0	0%	5	0.5	0	0	N/A	N/A	6%Fe, 1%Mn
1738109	28-0-0	2.5g jug (2 per case), 275g mini bulk	5800	Urea Triazone	20.2	72%	22	0.5	0	0	N/A	N/A	0
1739319	30-0-0	2.5g jug (2 per case), 275g mini bulk	6400	Urea & Urea Triazone	15	50%	20	0.5	0	0	N/A	N/A	0
1730109	0-28-26 (Phosphite)	2.5g jug (2 per case) , 275g mini bulk	18,300	N/A	0	0%	7	0	0.19	0.18	Phosphorous Acid	Potassium Hydroxide	0
1730019 1730009	3-0-3 (Gro-Gard)	64oz jug (6 per case) 2.5g jug (2 per case)	8-16 oz./Acre	Vegetable Protein Hydrolysate & Urea	0	0%	8-16 oz/ Acre	N/A	N/A	N/A	N/A	MOP	Fe, Mn, Cu,Zn

NOTE: For Product Code add -Mb for mini-bulk

Water Soluble Grade Blends				Nutrient Pounds/ 1000 Sq. ft.							
Product Code	Analysis	Packaging	Coverage per bag sq.ft. at 0.25 lbs. N	Nitrogen Source	Lbs. /1000sq. ft.	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	P source	K Source	Micro Nutrients
6701789	31-3-15	25 lb bag	31,250	Urea, MAP, NOP	0.80	0.25	0.2	0.12	MAP	NOP	N/A
6700849	20-20-20	25 lb bag	20,000	Urea, MAP,NOP	1.25	0.25	0.25	0.25	MAP	NOP	Fe,Mn,Zn,Cu
6700949	25-0-25	25 lb bag	25,000	NOP, Urea	1.00	0.25	0	0.25	N/A	NOP	Fe,Mn,Zn,Cu
6700629	14-32-16	25 lb bag	13,900	Urea, MAP	1.80	0.25	0.58	0.29	MAP	MOP	Fe,Mn,Zn,Cu



# FAQ's

## Frequently Asked Questions

Q: What does XRT® stand for?

A: **E**xtended **R**elease **T**echnology

Q: What does Surf stand for in SurfCote®?

A: **S**ustained **U**niform **R**elease **F**ertilizer

Q: What is the difference between XRT® and SurfCote®?

A: The most obvious difference is XRT® is yellow and SurfCote® is blue. XRT is only available in a "Up to 90 day" controlled release and SurfCote is available in "Up to 120, 180 and 270 day" controlled release. The SurfCote has a thicker polymer resin to allow for a longer release curve.

Q: Why do Shaw's One & Done™ products seem to cost more per bag than it's competitors?

A: You cannot just look at the cost per bag as the determining factor. Each formulation is a little different. However, what you should be looking at is the amount of lbs. of N and AI that go down per acre, then look at the bag costs. What you find in most cases is the price is very similar or we are cheaper per acre or use fewer lbs./bags per acre.

Q: What is the difference between Surf-4, Surf-6 and Surf-9?

A: Each number represents how many months of controlled release fertilizer that is in the bag.

Q: I use a 45 day release fertilizer. Do you offer XRT or SurfCote in a 45 Day product?

A: Our XRT nutrient release products are the closest we have to 45 days. In most instances, you will find our 90 day products to be priced on par with 45 day blends which means you can offer your customers a better product for same or similar price.

Q: Can you make me a custom blend?

A: In most cases we can create a custom blend for you. Contact your territory sales manager for details.

Q: Can I buy direct from Knox Fertilizer?

A: We sell through two step distribution and utilize a distributor network. Contact your territory sales manager for a list of distributors who carry the product in your area.

Q: I use SCU now. What product would be similar in cost and efficacy?

A: XRT is the closet product we offer to SCU. XRT has a longer more predictable release range, it's unaffected by irrigation and rainfall, has a low burn potential and has an extremely durable coating.

Q: How do I apply the fertilizer and how much?

A: Broadcast spreaders are best to use with our fertilizers. Drop spreaders can be used but caution needs to be given not to skip any areas and cause uneven striping. Broadcast spreaders are more forgiving and are much quicker. XRT should be applied at 1 lb of Nitrogen per thousand square feet. SurfCote-4 products should be applied at 1.25 lbs, SurfCote-6 at 1.75 lbs and SurfCote-9 at 2.25 lbs of Nitrogen per thousand square feet respectively. Please seek advice from your distributor representative if you have any questions regarding proper application procedures.



## QUALITY IS OUR PROMISE.

Knox Fertilizer leads the lawn-and-garden plant food industry with rigid specification standards and quality control. We check our products every step of the way, from incoming raw materials to in-process production to in-depth analytical release protocols. As a result, we guarantee that the products you buy will consistently deliver the performance you expect.

Contact your Knox Fertilizer representative for complete information.



KNOX FERTILIZER COMPANY, INC. • P.O. Box 248 • KNOX, IN 46534  
PHONE (574) 772-6275 • FAX (574) 772-5878 • [WWW.KNOXFERT.COM](http://WWW.KNOXFERT.COM)

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