

STS Tire Sealant



Application Guide

How is “STS” Tire Sealant Installed?

This extremely effective sealant is easy to install either in the shop or on a service call.

Regular Formula for Air-Filled Tires

To install 8 oz. (237 ml) cartridge with caulking gun . . . Remove valve stem core. Rotate tire so valve stem is at the 3:00 or 9:00 position. Cut off plastic tip at end of last diagonal mark (approx. $\frac{3}{4}$ in. from tip). Place tube in caulking gun and twist spout over valve stem. Force sealant into the tire with caulking gun, replace valve core and inflate tire to recommended pressure.

To install from 1-gal. (3.78 L) container with hand pump . . . Use slow, steady up/down hand pump strokes to avoid clogging. Once primed, each downstroke delivers 1 oz. (29.5 ml) of sealant. Rotate tire so valve stem is at the 3:00 or 9:00 position. Remove valve stem core and deflate tire. Connect pump hose assembly to the valve stem. Install recommended tire sealant quantity. Push down on pump handle until it rests solidly on pump base. Remove hose assembly from the valve stem. Replace valve core and inflate tire to recommended air pressure.

To install from a 5-gal. pail with the hand pump . . . (Note: hand pump may be used against tire pressures up to 30 PSI.) Rotate tire so valve stem is at the 3:00 or 9:00 position. Remove valve stem core and deflate tire. Connect pump hose assembly to the valve stem. Pull on pump handle until fully extended. Push down on pump handle until it rests solidly on pump base; 8 oz. of sealant will be delivered. Refer to quantity chart for tire size and quantity. Remove hose assembly from the valve stem. Replace valve core and inflate tire to recommended air pressure.

To install with Pneumatic Pump System . . . Remove valve stem core. Rotate tire so valve stem is at the 3:00 or 9:00 position. Connect pump hose assembly to the valve stem. Set counter to desired number of cycles (1 cycle = 4 oz. {118 ml}) and start pump system. Pump will activate and deliver the accurate quantity and automatically stop. Pneumatic Pump System allows delivery of sealant against full inflated tire pressure.

– Rotate Tire and Wheel after “STS” Tire Seal Application –

Concentrate Formula for Fluid-Weighted Tires

To install concentrate formula tire sealant from 5-gal. pail and hand pump . . . Position valve stem at 12:00. Remove valve stem core (optional valve core removing tool available). Connect pump hose assembly to the valve stem. Determine recommended amount of sealant for the tire being serviced by using the ratio of one gallon of concentrate sealant per 30 gallons of fluid in the tire. Use one full hand pump up/down stroke to deliver 8 oz. of concentrate sealant for every two gallons of fluid in the tire. Remove hose assembly from valve stem. Replace valve stem core and inflate tire to recommended pressure. Rotate tire and wheel after application.

To install “STS” Concentrate Tire Seal from 1-gallon (3.79 L) container . . . Pour into the tire or mix fluid with solution before application to the tire.

To determine recommended amount of concentrate sealant for the tire being serviced, use the ratio of one gallon of sealant concentrate per 30 gallons of fluid in the tire or use 8 oz. of concentrate sealant for every two gallons of fluid in the tire.

How Does “STS” Tire Sealant Work?

“STS” Tire Seal contains fibers and rubber particles in uniform suspension throughout a nontoxic fluid carrier. When a puncture occurs, the escaping air forces the carrier and fibers to the point of penetration making a solid, permanent repair from the inside . . . out! Rim and bead leaks and porosity problems with tubeless innerliners will also be sealed quickly and effectively. The special chemical formulation will condition the innerliner to prevent dry rot and cracking which can lead to chronic slow air loss and premature tire failure. And, “STS” Tire Seal is safe, nontoxic, nonflammable, and environmentally friendly.

How to Repair Tubeless Tires in Less Than 5 Minutes

Repair tubeless tires on the wheel. Install sealant, inflate tire to proper pressure, position puncture at 6:00 and bounce the tire and wheel on the floor until the puncture is sealed. Rotate tire.

How to Prevent Flat Tires

“STS” Tire Seal offers an excellent preventive maintenance program against flat tires. When installed in all tire and wheel assemblies, it will seal injuries caused by puncturing objects measuring up to 3/16” (5 mm) in size, rim and bead leaks, porosity leaks, vent hole leaks, and condition the tire innerliner or tube to prevent air loss for the life of the tire. “STS” Tire Seal will reduce downtime and operating costs associated with tire air loss.

OFF THE ROAD APPLICATIONS

One 5-gallon pail of STS Tire Sealant = 640 oz.

One downstroke of the 5-gallon hand pump delivers 8 oz. of sealant.

This product is not intended for use in passenger or light truck highway applications.

For tire sizes not on the chart call 1-800-233-7086.

Tire Size	Wheel Size	Ounces	# Pump Strokes
9x3.5	4	8	1
4.10	4	8	1
11x4.00	4	8	1
11x4.00	5	8	1
3.50	6	16	2
4.10	6	16	2
8.00	6	40	5
13x5.00	6	16	2
13x6.50	6	24	3
15x6.00	6	24	3
15x6.50	6	24	3
13	6.5	16	2
4.80	8	16	2
5.70	8	24	3
5.70/5.00	8	24	3
8.00	8	24	3
15x6.50	8	16	2
16.5x6.50	8	24	3
16X6.50	8	24	3
16x7.50	8	32	4
18x6.50	8	24	3
18x7	8	24	3
18x7.50	8	24	3
18x8.50	8	40	5
18x9	8	40	5
18x9.50	8	40	5
18x11	8	48	6
18.5x8.5	8	32	4
20x7	8	32	4
20x8.00	8	40	5
20x10.00	8	40	5
21x11	8	56	7
21x12.5	8	56	7
22x11	8	56	7
22x12	8	56	7
22.5x10	8	48	6
6.90	9	32	4
6.90/6.00	9	24	3
20x11	9	56	7
21x8	9	32	4
21x12.5	9	64	8
25x12	9	64	8
25x13	9	72	9
6.50	10	32	4
9.00	10	56	7

Tire Size	Wheel Size	Ounces	# Pump Strokes
18x8.00	10	24	3
18x8.50	10	24	3
18x10.50	10	48	6
18x11	10	48	6
20x8.00	10	32	4
20x10.00	10	48	6
20x11	10	40	5
20x12	10	32	4
21x7	10	32	4
21x12.5	10	56	7
22x8	10	40	5
22x9.50	10	40	5
22x11	10	56	7
23x7	10	32	4
23x8	10	40	5
23x10	10	48	6
24x9.50	10	48	6
24x11	10	48	6
24x12	10	56	7
25x11	10	56	7
23x8	11	40	5
24x8	11	40	5
24X9	11	48	6
24x10	11	48	6
4.00	12	24	3
4.80	12	24	3
5.30	12	24	3
5.70	12	24	3
6.00	12	24	3
7.00	12	40	5
22x7.50	12	32	4
22x9.50	12	32	4
23X8	12	40	5
23X8.50	12	48	6
23X9.50	12	48	6
23x10	12	48	6
23x10.50	12	56	7
24X9	12	48	6
24x9.50	12	48	6
24x12	12	64	8
24X13.00	12	72	9
25x8	12	40	5
25x10	12	48	6
25x11	12	54	7
26X10.50	12	56	8

Highway applications are found on page 9.

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For tire sizes not on the chart call 1-800-233-7086.

Tire Size	Wheel Size	Ounces	# Pump Strokes
26x12.00	12	72	9
26.5x14.00	12	88	11
165/80	13	32	4
185/80	13	32	4
31	13.5	88	11
7	14	32	4
8.5	14	48	6
9.5	14	56	7
11	14	64	8
24x8.50	14	40	5
25x8.50	14	48	6
5.00	15	24	3
5.90	15	32	4
7.00	15	48	6
7.5L	15	48	6
7.60	15	48	6
8.25	15	64	8
8.5/90	15	48	6
9.00	15	64	8
9.5	15	64	8
10.00	15	72	9
11	15	72	9
12.5	15	80	10
13.50	15	88	11
250	15	56	7
300	15	72	9
825	15	56	7
1000	15	72	9
25X7.50	15	40	5
27X8.50	15	48	6
27X9.50	15	56	7
27X10.50	15	56	7
28X9	15	48	6
28X12	15	72	9
29x14	15	72	9
29X8	15	40	5
29X12.50	15	72	9
30X8	15	48	6
31X13.50	15	88	11
31X15.50	15	104	13
32X12	15	80	10
32X15	15	96	12
33X12.50	15	88	11
35X15	15	104	13
36X11	15	80	10

Tire Size	Wheel Size	Ounces	# Pump Strokes
36X13.50	15	112	14
5.50	16	32	4
6.00	16	40	5
6.50	16	40	5
7	16	40	5
7.50	16	56	7
8.00	16	48	6
9.00	16	56	7
10.00	16	72	9
11	16	112	14
16.00	16	104	13
13.50	16.1	104	13
14	16.1	120	15
14.5/75	16.1	104	13
16.5	16.1	152	19
18.4	16.1	176	22
19	16.1	176	22
21.5	16.1	208	26
35x19.00	16.1	136	17
10	16.5	64	8
12	16.5	80	10
15.5x38.5	16.5	104	13
30.5x12.5	16.5	80	10
33x14.5	16.5	104	13
35x14.5	16.5	96	12
36x12.50	16.5	88	11
12	17	80	10
14	17.5	104	13
7.50	18	56	7
10.5/80	18	72	9
12.5/80	18	88	11
15	19.5	128	16
7.50	20	56	7
9.50	20	88	11
10.5	20	80	10
11:00	20	136	17
12.5	20	104	13
13.00	20	120	15
14.00	20	136	17
16.00	20	168	21
16x70	20	144	18
825	20	64	8
1200	20	96	12
38x18.00	20	152	19
42x25	20	184	23

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For tire sizes not on the chart call 1-800-233-7086.

Tire Size	Wheel Size	Ounces	# Pump Strokes
44x18.00	20	168	21
48x25.00	20	248	31
48x31.00	20	272	34
365/80R	20	144	18
405x70	20	144	18
24	20.5	264	33
14.00	21	136	17
16.00	21	168	21
24	21	264	33
27.25	21	328	41
42x21	22	184	23
445x50	22.5	120	15
455R55	22.5	136	17
600x50	22.5	224	28
7.50	24	64	8
8.3	24	56	7
9.00	24	80	10
9.5	24	72	9
11.2	24	96	12
11.25	24	104	13
12.4	24	112	14
13.00	24	120	15
13.6	24	128	16
14.00	24	152	19
14.9	24	144	18
16.00	24	184	23
16.5/85	24	208	26
16.9	24	176	22
17.5	24	160	20
18.00	24	232	29
18.4	24	192	24
19.5	24	192	24
20	24	232	29
21	24	224	28
14.00	25	144	18
15.5	25	144	18
16.00	25	176	22
17.5	25	176	22
18.00	25	240	30
20.5	25	248	31
21.00	25	304	38
23.5	25	304	38
26.5	25	352	44
29.5	25	440	55
22/65	25	304	38

Tire Size	Wheel Size	Ounces	# Pump Strokes
25/55	25	344	43
30/65	25	400	50
54x31.00	25	304	38
54x37.00	25	336	42
61x18.00	25	216	27
66x43.00	25	496	62
67x34.00	25	456	57
800/50	25	304	38
16.9	26	176	22
18.4	26	200	25
23.1	26	280	35
480/80R	26	240	30
11.2	28	96	12
12.4	28	112	14
13.6	28	136	17
14.9	28	152	19
16.9	28	184	23
18.4	28	208	26
21L	28	256	32
480/70	28	192	24
600/65	28	256	32
26.5	29	376	47
29.5	29	456	57
30/65	29	424	53
33.25	29	544	68
14.9	30	160	20
16.9	30	192	24
18.4	30	216	27
23.1	30	296	37
420/90	30	240	30
480/70	30	200	25
24.5	32	328	41
30.5	32	424	53
68x50.00	32	520	65
73x44.00	32	552	69
76x50.00	32	648	81
78x45.00	32	640	80
800/65R	32	445	56
900/60	32	521	65
900/65R	32	590	74
650/75R	32	395	49
18.00	33	256	32
30.00	33	584	73
33.5	33	568	71
35/65	33	576	72

Highway applications are found on page 9.

