



7 Tips to Quick Macro-Infusion Uptake

Sharp Drill Bits

Use high helix drill bits, as they are sharpened to a razor edge down the length of the twist. This will cleanly slice the xylem tissue, yielding optimal uptake. A dull drill bit will tear or cauterize the xylem tissue, physically blocking uptake. Drill bits should be changed every five trees.

Clean Root Flare

To prevent dulling of the drill bit and physical obstruction during uptake, sweep the root flare off - even if above ground. Grit or dirt will dull the blade and may fall into the hole causing an obstruction.

Proper Tee Depth

Tees should be inserted into the tree by hand, then given a light tap to seal. If the tee is inserted too far, there is no place for the product to go.

Root Flare Injection

Root flare tissue will allow sideways movement, while trunk tissue will not – this extra area for solution to flow into will result in faster uptake.

Clogged Tees

To prevent clogged tees, check each tee for mud or sawdust before insertion.

Clean Pump Filter

Before each use, check and/or clean the pump filter. A clogged filter will result in slow uptake.

Right Water

Hard or high pH water, from city sources, will cause Arbotect® 20-S to fall out of solution. This is recognized when the solution turns white, with floating precipitate. This is distinguished from air bubbles that originate in the re-circulating hose, which is not an issue. With hard water – a deionizer can be used and is easily rented from a water company as a portable unit. For high pH water, muriatic acid can be added at a rate of 1 oz per 6 gallons of water. If in the situation where the water has precipitated – stir in muriatic acid until the solution turns clear.

American Elms

DBH (cm)	Arbotect (ml)	Water (L)	DBH (cm)	Arbotect (ml)	Water (L)
25	700	47	63	1764	117
26	728	48	64	1792	119
27	756	50	65	1820	121
28	784	52	66	1848	123
29	812	54	67	1876	125
30	840	56	68	1904	126
31	868	58	69	1932	128
32	896	60	70	1960	130
33	924	61	71	1988	132
34	952	63	72	2016	134
35	980	65	73	2044	136
36	1008	67	74	2072	138
37	1036	69	75	2100	140
38	1064	71	76	2128	141
39	1092	73	77	2156	143
40	1120	74	78	2184	145
41	1148	76	79	2212	147
42	1176	78	80	2240	149
43	1204	80	81	2268	151
44	1232	82	82	2296	153
45	1260	84	83	2324	154
46	1288	86	84	2352	156
47	1316	87	85	2380	158
48	1344	89	86	2408	160
49	1372	91	87	2436	162
50	1400	93	88	2464	164
51	1428	95	89	2492	166
52	1456	97	90	2520	167
53	1484	99	91	2548	169
54	1512	100	92	2576	171
55	1540	102	93	2604	173
56	1568	104	94	2632	175
57	1596	106	95	2660	177
58	1624	108	96	2688	179
59	1652	110	97	2716	180
60	1680	112	98	2744	182
61	1708	113	99	2772	184
62	1736	115	100	2800	186

*The Arbotect dose rate for American/white elm is: 28 ml diluted in 1.86 L water/cm DBH

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