

## Adfil® Strux Synthetic Fiber Dosage Guide – WWM (3500 – 4500 psi concrete)

Reinforcement Ratio (RR, %) and Dosage Rate (DR, pcy)		Welded Wire Mesh															
		6 in. x 6 in.								4 in. x 4 in.							
		W1.4		W2.0		W2.9		W4.0		W1.4		W2.0		W2.9		W4.0	
Slab Thickness (in.)	Gauge	10		8		6		4		10		8		6		4	
	A <sub>s</sub> (in. <sup>2</sup> /ft.)	0.028		0.040		0.058		0.080		0.042		0.060		0.087		0.120	
		RR	DR	RR	DR	RR	DR	RR	DR	RR	DR	RR	DR	RR	DR	RR	DR
2.0		0.12	3.0	0.17	4.5	0.24	7.0	0.33	*	0.18	5.5	0.25	7.0	0.36	*	0.50	
2.5		0.09	3.0	0.13	3.5	0.19	5.5	0.27	7.5	0.14	3.5	0.20	5.5	0.29		0.40	*
3.0		0.08	3.0	0.11	3.0	0.16	4.5	0.22	6.0	0.12	3.0	0.17	4.5	0.24	7.0	0.33	
3.5		0.07	3.0	0.10	3.0	0.14	3.5	0.19	5.5	0.10	3.0	0.14	3.5	0.21	6.5	0.29	
4.0		0.06	3.0	0.08	3.0	0.12	3.0	0.17	4.5	0.09	3.0	0.13	3.5	0.18	5.0	0.25	7.0
4.5		0.05	3.0	0.07	3.0	0.11	3.0	0.15	4.0	0.08	3.0	0.11	3.0	0.16	4.5	0.22	6.0
5.0		0.05	3.0	0.07	3.0	0.10	3.0	0.13	3.5	0.07	3.0	0.10	3.0	0.15	4.0	0.20	5.5
5.5		0.04	3.0	0.06	3.0	0.09	3.0	0.12	3.0	0.06	3.0	0.09	3.0	0.13	3.5	0.18	5.0
6.0		0.04	3.0	0.06	3.0	0.08	3.0	0.11	3.0	0.06	3.0	0.08	3.0	0.12	3.0	0.17	4.5
7.0		0.03	3.0	0.05	3.0	0.07	3.0	0.10	3.0	0.05	3.0	0.07	3.0	0.10	3.0	0.14	3.5
8.0		0.03	3.0	0.04	3.0	0.06	3.0	0.08	3.0	0.04	3.0	0.06	3.0	0.09	3.0	0.13	3.5
9.0		0.03	3.0	0.04	3.0	0.05	3.0	0.07	3.0	0.04	3.0	0.06	3.0	0.08	3.0	0.11	3.0
10.0		0.02	3.0	0.03	3.0	0.05	3.0	0.07	3.0	0.04	3.0	0.05	3.0	0.07	3.0	0.10	3.0
11.0		0.02	3.0	0.03	3.0	0.04	3.0	0.06	3.0	0.03	3.0	0.05	3.0	0.07	3.0	0.09	3.0
12.0		0.02	3.0	0.03	3.0	0.04	3.0	0.06	3.0	0.03	3.0	0.04	3.0	0.06	3.0	0.08	3.0

\* Contact Chryso for recommendations

Notes:

1. Dosage rates calculated using Chryso Technical Bulletin 1205 and SPEC-544.12-23.
2. Composite metal decks require a minimum dosage rate of 4 pcy, in accordance with SDI C-2017
3. UL and ULC Classified; CBWQ.R13667 and CBXQ7.R13667 between 4 and 5 pcy

This table recommends dosage rates of Strux macro synthetic fiber for use in concrete installations as a replacement for steel welded wire mesh or light reinforcement bars. It is cautioned that replacement rates are dependent on job specific requirements, which vary from project to project. Chryso can provide no guarantee of performance or the results to be obtained, either expressly or implied, for the Strux macro synthetic fiber or the dosage rates recommended provided by this table, given the inputs. Chryso makes no warranties of any kind, and will not be liable for any damages, including, but not limited to special, indirect, or consequential damages arising from its use. For further technical assistance, please contact your Chryso sales representative.



## Adfil®Strux Synthetic Fiber Dosage Guide – Light Rebar (3500 – 4500 psi concrete)

Reinforcement Ratio (RR, %) and Dosage Rate (DR, pcy)		Light Reinforcing Rebar															
		#3 rebar @								#4 rebar @							
		12" x 12"		16" x 16"		18" x 18"		24" x 24"		12" x 12"		16" x 16"		18" x 18"		24" x 24"	
Slab Thickness (in.)	A <sub>s</sub> (in. <sup>2</sup> /ft.)	0.110		0.083		0.074		0.055		0.196		0.147		0.131		0.098	
		RR	DR	RR	DR	RR	DR	RR	DR	RR	DR	RR	DR	RR	DR	RR	DR
2.0		0.46		0.35	*	0.31	TH	0.23	6.5	0.82		0.61		0.55		0.41	*
2.5		0.37	*	0.28	*	0.25	7.0	0.18	5.0	0.65		0.49		0.44		0.33	*
3.0		0.31		0.23	6.5	0.20	5.5	0.15	4.0	0.55		0.41	*	0.36		0.27	7.5
3.5		0.26	7.5	0.20	5.5	0.18	5.0	0.13	3.5	0.47		0.35		0.31		0.23	6.5
4.0		0.23	6.5	0.17	4.5	0.15	4.0	0.12	3.0	0.41	*	0.31		0.27	7.5	0.20	5.5
4.5		0.20	5.5	0.15	4.0	0.14	3.5	0.10	3.0	0.36		0.27	7.5	0.24	7.0	0.18	5.0
5.0		0.18	5.0	0.14	3.5	0.12	3.0	0.09	3.0	0.33		0.25	7.0	0.22	6.0	0.16	4.5
5.5		0.17	4.5	0.13	3.5	0.11	3.0	0.08	3.0	0.30		0.22	6.0	0.20	5.5	0.15	4.0
6.0		0.15	4.0	0.12	3.0	0.10	3.0	0.08	3.0	0.27	7.5	0.20	5.5	0.18	5.0	0.14	3.5
7.0		0.13	3.5	0.10	3.0	0.09	3.0	0.07	3.0	0.23	6.5	0.18	5.0	0.16	4.5	0.12	3.0
8.0		0.12	3.0	0.09	3.0	0.08	3.0	0.06	3.0	0.20	5.5	0.15	4.0	0.14	3.5	0.10	3.0
9.0		0.10	3.0	0.08	3.0	0.07	3.0	0.05	3.0	0.18	5.0	0.14	3.5	0.12	3.0	0.09	3.0
10.0		0.09	3.0	0.07	3.0	0.06	3.0	0.05	3.0	0.16	4.5	0.12	3.0	0.11	3.0	0.08	3.0
11.0		0.08	3.0	0.06	3.0	0.06	3.0	0.04	3.0	0.15	4.0	0.11	3.0	0.10	3.0	0.07	3.0
12.0		0.08	3.0	0.06	3.0	0.05	3.0	0.04	3.0	0.14	3.5	0.10	3.0	0.09	3.0	0.07	3.0

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Notes:

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