



CEMSTONE®

Fiber Products
For Durable Concrete

Fiber Products for Durable Concrete

Cemstone offers a full product offering of fibers. These fibers provide three-dimensional reinforcement to improve the concrete's durability and resistance to cracking. The Cemstone line includes three types of fibers: micro-synthetic, macro-synthetic and steel fibers.

Cemstone's Dosage Wizard Can Help You Cut Costs!

Ask your local salesperson to create a free analysis for you using our new **Dosage Wizard** to see how much you can save by using macro-synthetic and steel fibers in place of welded wire reinforcement (WWR) and small diameter rebar for shrinkage and temperature (secondary) reinforcement.

Additional Information

For additional information on Cemstone Fiber products, contact your local sales representative.

Cemstone Product Company
Cemstone Ready Mix, Inc.

1-800-CEMSTONE

salessupport@cemstone.com

www.cemstone.com

Recommended Dosage lb/yd³

APPLICATION		SYNTHETIC			STEEL		
		Mono	Fibrillated	Macro	FF1*	FF3*	FS7*
Slab on Grade	Residential/Light Commercial	0.5	1.5	N/R	N/R	N/R	N/R
	Commercial	0.5-1.0	1.5	3	34-60	34-44	N/R
	Industrial	N/R	N/R	**	44-75	34-60	N/R
	Pavement & Roadways	N/R	N/R	**	44-70	34-60	N/R
	Overlays/White Toppings	N/R	3	3`	N/R	N/R	34-70
Slab on Metal Deck	Metal Decks	N/R	N/R	4	50-70	50-70	50-70
	Crypts/Vaults	N/R	N/R	3-5	N/R	N/R	44-200
	Septic Tanks & Containers	N/R	N/R	3-5	44-70	44-70	44-70
	Ornamental	0.5	1.5	N/R	34-44	25-44	25-44
	Pipes	N/R	N/R	3-5	44-85	44-85	44-85
Stucco	One Coat	0.33	0.75	N/R	N/R	N/R	N/R
Walls	Insulating Concrete Forms (ICFs)	N/R	N/R	4-5	44-85	44-85	44-85
	Tilt-Up	N/R	+/-3	3-6	34-85	25-70	25-70
Shotcrete & Underground	Tunneling & Mining	N/R	N/R	3-13	N/R	N/R	44-60
	Final Lining	N/R	N/R	N/R	44-100	44-85	44-85
	Precast Tunnel Segments	N/R	N/R	N/R	44-100	44-85	44-85
	Slope Stabilization	N/R	N/R	3-5	N/R	N/R	44-70
	Swimming Pools	N/R	N/R	3-5	N/R	N/R	44-70

* Use of long or short steel fibers is dependent on aggregate size in the mix design.

** Use the Cemstone **Fiber Wizard** Program

N/R = Not Recommended

Fiber Alternative Design Request

Application

- Slab on Grade
- Composite Metal Deck
- Topping Slab

Total square feet of slab _____

Slab thickness _____

Specified concrete strength _____ psi

Specified concrete reinforcement _____

Welded wire or rebar location

- Top of slab
- Middle of slab

Cost for welded wire or rebar _____

Figured labor cost per square foot to install



Cemstone Fiber Product Benefits

Fiber Type	Master-Fiber™ Product	Reduces Plastic Shrinkage Cracking	Reduces Temperature Shrinkage Cracking	Finishing Characteristics	Shatter, Impact & Abrasion Resistant	Reduces Permeability	Chemical & Alkali Resistant
Mono Filament	M100	E	N/A	E	F	E	E
Fibrillated	F100	G	E	G+	G+	E	E
Macro Synthetic	MAC470	G	E	G	E	E	E
Steel	FF1	G	G	E	E	G	P
	FF3	G	E	E	E	G	P
	FS7	G	E	E	E	G	P

Fiber Type	Master-Fiber™ Product	Bonds w/ Cement or Concrete	Increases Toughness & Durability	Eliminates WWR	Eliminates #3 & #4 Rebar as Secondary Reinforcement	Provides Primary Reinforcement
Mono Filament	M100	N/A	N/A	N/A	N/A	N/A
Fibrillated	F100	E	G	E	N/A	N/A
Macro Synthetic	MAC470	E	E	E	E	N/A
Steel	FF1	G	E	E	E	E
	FF3	G	E	E	E	E
	FS7	G	E	E	E	E

E=Excellent

G=Good

F=Fair

P=Poor

A close-up photograph of a dense, tangled mass of light-colored, fibrous material, likely glass or mineral fibers, used in construction. The fibers are thin and elongated, creating a complex, interwoven texture. The lighting is bright, highlighting the individual strands and their intersections.

Cemstone Products Company
Cemstone Ready Mix, Inc.

2025 Centre Pointe Boulevard, Suite 300
Mendota Heights, MN 55120
Phone: 651-688-9292 • 800-CEMSTONE
Fax: 651-688-0124

www.cemstone.com