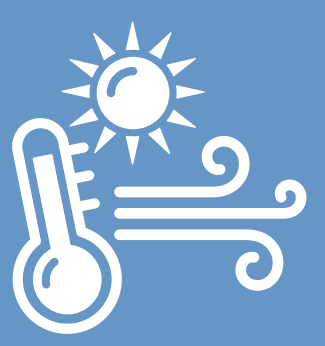
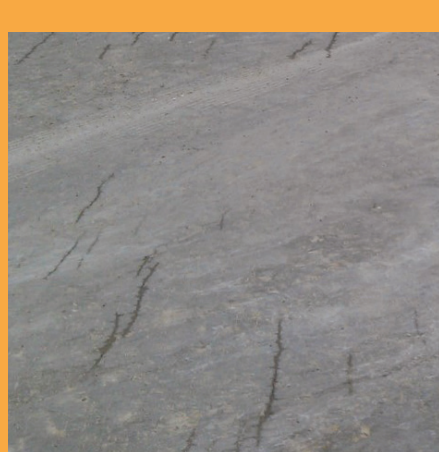
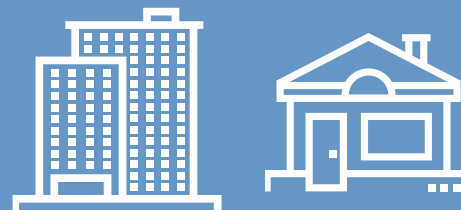
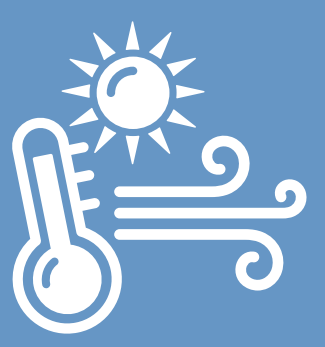
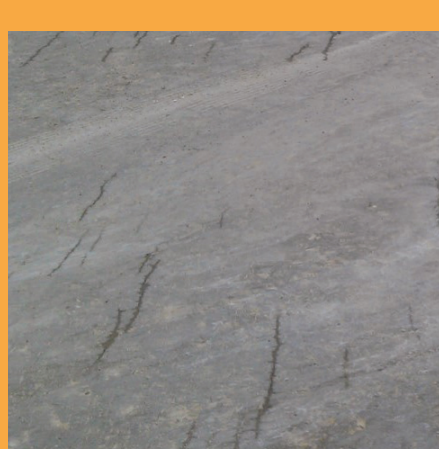


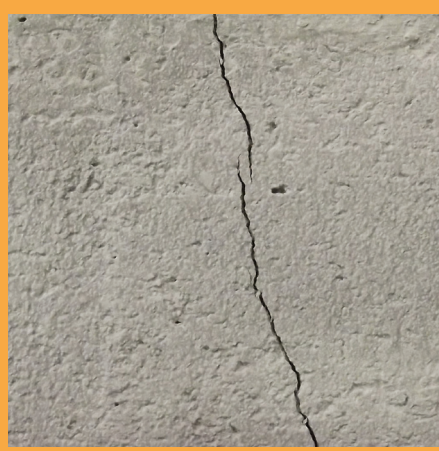

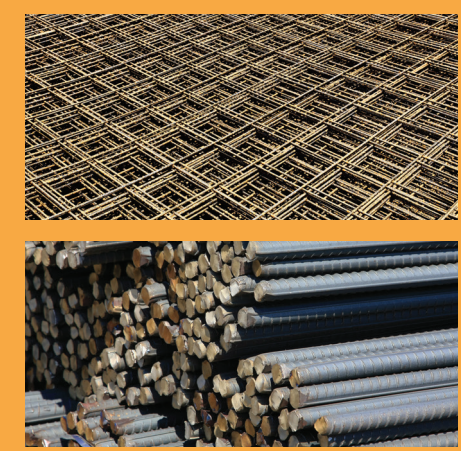


MasterFiber[®] Selection Guide

SPECIAL CONDITIONS	USAGE	STRUCTURE TYPE	REPLACES	MASTERFIBER PRODUCT
 <ul style="list-style-type: none"> • Adverse ambient conditions (ex: hot, dry, windy) 	 <ul style="list-style-type: none"> • Reduces plastic shrinkage cracking 	 <ul style="list-style-type: none"> • Slab-on-ground • Driveways • Paving 	N/A	Monofilament M 35, M 70, M 100 M 35: 0.5 - 0.75 lb/yd ³ 0.3 - 0.5 kg/m ³ M 70: 0.75 - 1.5 lb/yd ³ 0.4 - 0.9 kg/m ³ M 100: 0.5 lb/yd ³ 0.3 kg/m ³ • Provides built-in protection
 <ul style="list-style-type: none"> • Adverse ambient conditions (ex: hot, dry, windy) 	 <ul style="list-style-type: none"> • Holds cracks tight • Reduces plastic shrinkage cracking 	 <ul style="list-style-type: none"> • Residential slab-on-ground • Driveways and sidewalks • Basement and garage slabs • Ultra-thin whitetopping • Topping slabs 	 <ul style="list-style-type: none"> • Light gauge welded-wire reinforcement (WWR) 6x6 W1.4xW1.4 152x152-MW9.1xMW9.1 	Fibrillated F 70, F 100 1.5 lb/yd³ 0.9 kg/m³ <ul style="list-style-type: none"> • Saves the contractor time • Improves jobsite safety • Ensures reinforcement is in the correct location
N/A	 <ul style="list-style-type: none"> • Holds cracks tight 	 <ul style="list-style-type: none"> • Slab-on-ground • Composite metal deck • Warehouse floors • Pavement • Whitetopping & overlays • Utility Precast 	 <ul style="list-style-type: none"> • #3, #4 rebar 10 mm, 13 mm rebar • WWR 	MacroFiber MAC Matrix, MAC 360 FF, MAC 100 Plus, MAC 2200 CB* 3 - 15 lb/yd³ 1.8 - 9.0 kg/m³ <ul style="list-style-type: none"> • Increases post-crack load-carrying performance • Increases ductility, energy absorption and impact resistance • Improves jobsite safety and saves time * Minimum dosage of 2.5 lb/yd ³ (1.5 kg/m ³)

MasterFiber MAC Matrix, MAC 360 FF, MAC 100 Plus

Fiber dosage for replacing WWR for slab-on-ground, kg/m ³										
Slab thickness (mm)	Concrete Compressive strength (MPa)	152 x 152				102 x 102				
		MW13.0xMW13.0 (8/8)	MW13.3xMW13.3	MW18.7xMW18.7 (6/6)	MW25.8xMW25.8 (4/4)	MW9.1xMW9.1 (10/10)	MW13.0xMW13.0 (8/8)	MW18.7xMW18.7 (6/6)	MW25.8xMW25.8 (4/4)	
100	20	1.8	1.8	1.8	2.8	1.8	1.8	1.9	3.1	NA
	25				2.4			1.8	2.7	
	30				2.1			1.8	2.4	
125	20				2			2.3	3.5	
	25				1.8			2	3	
	30				1.8			1.8	2.7	
150	20				2.8					
	25				2.4					
	30				2.1					
175	20				2.2					
	25	1.9								
	30	1.8								
200	20									
	25									
	30									
250	20									
	25									
	30									

For specified welded-wire reinforcement (fy = 448 MPa) located in top third of slab

Fiber dosage for replacing rebar for slab-on-ground, kg/m ³													
Slab thickness (mm)	Concrete Compressive strength (MPa)	10-mm Rebar				10M Rebar				13-mm Rebar			
		Off Center Spacing				Off Center Spacing				Off Center Spacing			
		225 mm	300 mm	375 mm	450 mm	300 mm	375 mm	450 mm	600 mm	300 mm	375 mm	450 mm	600 mm
100	20			2.9	2.3				2.4				3.3
	25	NA	NA	2.5	1.9	NA	NA	NA	2.1	NA	NA	NA	2.9
	30			2.2	1.8				1.9				2.5
125	20		2.9	2.2			3.4	2.7					2.5
	25	NA	2.5	1.8	NA	2.9	2.3			NA	NA	NA	2.1
	30		2.2	1.8		2.6	2						1.9
150	20	3.3	2.3				2.7	2.1					1.9
	25	2.9	1.9			NA	2.3	1.8			NA	NA	2.5
	30	2.5	1.8				2	1.8					1.8
175	20	2.7				2.9	2.2						
	25	2.4				2.5	1.9			NA	2.9	2.3	
	30	2.1				2.2	1.8				2.6	2	
200	20	2.3				2.4					3.3	2.5	1.9
	25	1.9				2.1					2.9	2.1	1.8
	30	1.8				1.9					2.5	1.9	1.8
250	20										2.5		
	25										2.1		
	30										1.9		

For specified rebar (fy = 414 MPa) located in top third of slab

PLASTIC-SHRINKAGE CRACK	TEMPERATURE CRACKING	DRYING SHRINKAGE CRACKING
A surface crack that occurs in concrete before initial set.	Cracking caused by temperature drop in members subjected to external restraints or by temperature differential in members subjected to internal restraints (also called thermal cracking).	Cracking caused by restraint to volume change due to loss of moisture from hardened concrete.

* For MasterFiber MAC 2200CB dosage contact your local Master Builders Solutions representative.

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