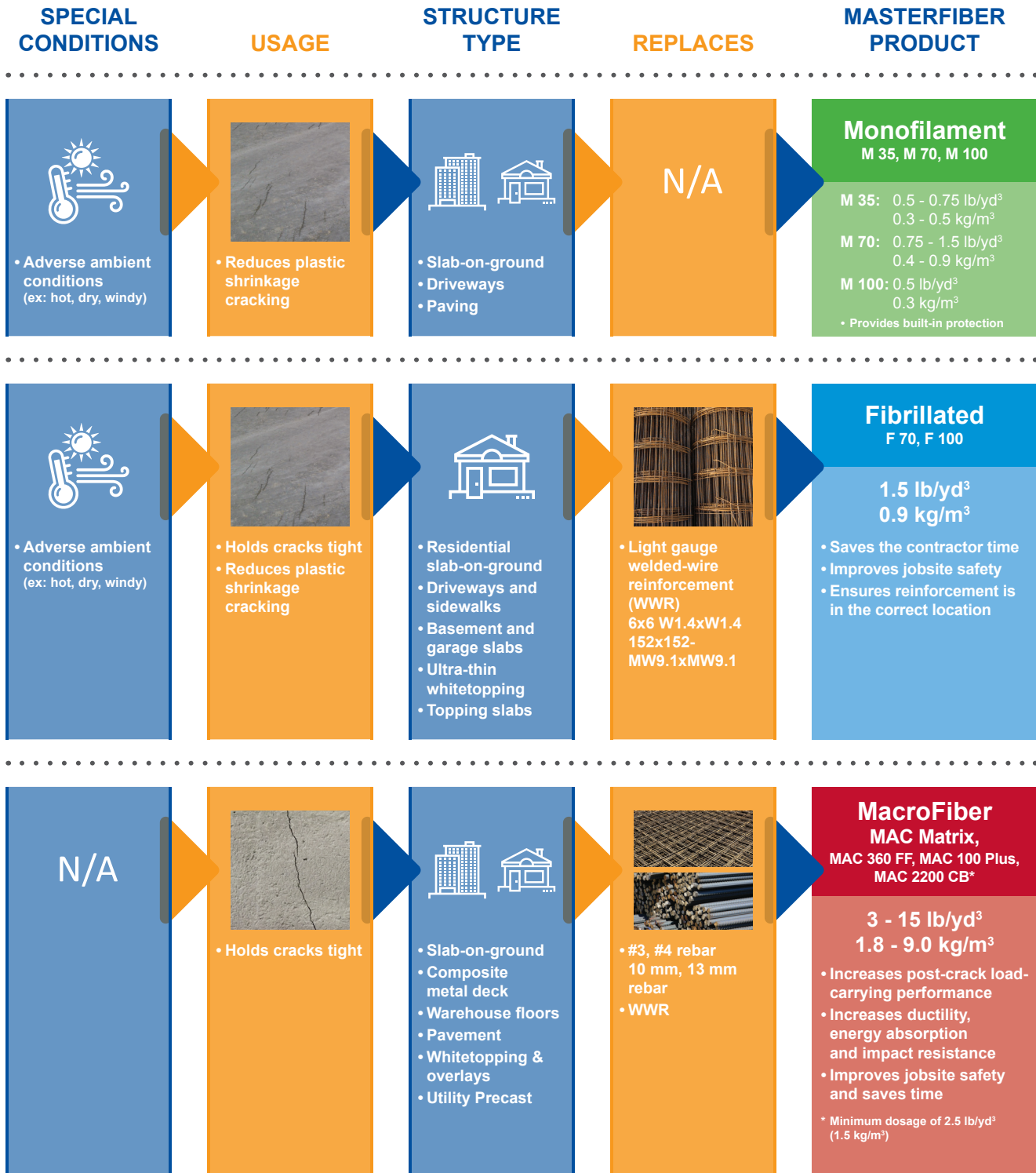


MasterFiber[®] Selection Guide



MasterFiber MAC Matrix, MAC 360 FF, MAC 100 Plus

Fiber dosage for replacing WWR for slab-on-ground, kg/m ³																								
		152 x 152				102 x 102																		
Slab thickness (mm)	Concrete Compressive strength (MPa)	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	1.9	3.1	NA															
	25				2.4		1.8	2.7																
	30				2.1		1.8	2.4																
125	20				2		1.8	2.3		3.5														
	25				1.8			2		3														
	30				1.8			1.8		2.7														
150	20				1.8		1.8	1.8		1.8	1.8	1.8	1.8	2.8										
	25													2.4										
	30													2.1										
175	20													1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2			
	25	1.9																						
	30	1.8																						
200	20	1.8	1.8	1.8		1.8			1.8												1.8	1.8	1.8	
	25																							
	30																							
250	20																							1.8
	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																																									
		10-mm Rebar				10M Rebar				13-mm Rebar																															
Slab thickness (mm)	Concrete Compressive strength (MPa)	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	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8																												
	25													2.9	2.3	2.4	3.3																								
	30													2.5	1.9	2.1	2.9																								
125	20													1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8																
	25																									2.2	1.8	1.9	2.5												
	30																									2.2	1.8	2	1.9												
150	20																									1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8				
	25																																					3.3	2.3	2.1	1.9
	30																																					2.9	1.9	2.3	1.8
175	20																																					1.8	1.8	1.8	1.8
	25	2.7	2.3	2.1	1.8																																				
	30	2.4	1.9	2.2	1.8																																				
200	20	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8																												
	25													2.3	2.3	2.1	1.8																								
	30													1.9	1.9	2.1	1.8																								
250	20													1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8																
	25																									2.4	2.2	2.2	1.9												
	30																									1.9	1.9	2.2	1.8												

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.