

# MasterFlow<sup>®</sup> Epoxy Grouts Product Selector

PRODUCT	PERFORMANCE						APPLICATION							
	ELEVATED TEMP		FLOWABILITY		DYNAMIC	CHEMICAL	LOW	HIGH	BASE PLATE	NARROW	ANCHOR BOLT		DEEP POUR	
	GOOD	EXCELLENT	NORM	HIGH	LOAD	RESISTANCE	CREEP	BEARING	FOUNDATION	CLEARANCE	SM	MED	LG	(>6")
MASTERFLOW 648		•		•	•	•	•	•	•	•		•	•	•_1
MASTERFLOW 649		•	•		•	•	•	•	•				•	
MASTERFLOW 668		•2		•	•	•	•	•		•2				
MASTERFLOW 678		•		•	•	•	•	•	•			•	•	•3

(1) Consult Technical Service

(2) For chock grouting and use in small pours

(3) Pours up to 18"

### PRODUCT DESCRIPTIONS

MasterFlow 648 High-strength, versatile high-flow grout

MasterFlow 649 High-strength, foundation grout

MasterFlow 668 Epoxy chock grout for mounting equipment

MasterFlow 678 Deep pour, multiple-use epoxy grout

## Description

Master Builders Solutions epoxy grouts are three-component grouts consisting of a two-part epoxy resin and a high-performance blended aggregate. Different products within the range provide solutions for traditional, high flow, anchor bolt, and chock grouting applications.

#### Features

- High early and 7-day strengths
- Epoxy based
- · High bond strength
- Variable fill ratio
- High flowability
- · Superior physical properties at elevated temperatures

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## Benefits

- Rapid return of equipment to service
- Good chemical resistance
- · Bonds to steel and concrete
- Optimum flowability, bearing area, and economics
- · Excellent bearing area for even distribution of loads
- Ideal for heat-generating equipment





TECHNICAL DATA			MasterFlow	
PROPERTY	648	649	668	678
Compressive strength, psi (MPa)				
73° F (23° C)	14,500 (100)	18,000 (124)	18,300 (126)	13,000 (89)
140° F (60° C)	11,500 (79)	7,800 (54)	13,100 (90)	15,000 (103)
170° F (77° C)	13,200 (91)	7,000 (48)	13,100 (90)	_
Modulus of elasticity, psi (GPa)				
73° F (23° C)	2.5 x 10 <sup>6</sup> (17.2)	2.6 x 10 <sup>6</sup> (18)	2.3 x 10 <sup>6</sup> (16)	7.2 x 10 <sup>6</sup> (50.8)
140° F (60° C)	_	1.8 x 10 <sup>6</sup> (12)	2.1 x 10 <sup>6</sup> (15)	_
170° F (77° C)	—	0.4 x 10 <sup>6</sup> (3)	1.7 x 10 <sup>6</sup> (12)	—
Creep, in/in (cm/cm), at 600 psi (4.4 MPa)				
140° F (60° C)				
	4.2 x 10 <sup>-3</sup>	4.0 x 10 <sup>-3</sup>	0.8 x 10 <sup>-3</sup>	4.1 x 10 <sup>-3</sup>

## Where to Use

Where to Use	PACKAGING AND YIELD					
Pulp and paper mills	PRODUCT	PACKAGING	YIELD FT <sup>3</sup> (M <sup>3</sup> )			
<ul> <li>Steel mills</li> <li>Chemical processing plants</li> <li>Machinery, turbine, and compressor grouting</li> <li>Anchor bolt and dowel grouting</li> <li>Crane rail grouting</li> </ul>	<b>MasterFlow 648</b> 54.4 lb unit Resin Hardener Aggregate	one 5.5 lb pail (2.5 kg) one 1.65 lb bottle (0.75 kg) one 47 lb bag (21.3 kg)	0.4 (0.001)			
Environment	216 lb unit		17(0.05)			
<ul> <li>Grouting where the foundation requires chemical resistance</li> <li>Installations with high early strength requirements</li> <li>Applications with high dynamic loads</li> <li>Repairs where downtime loss is substantial</li> </ul>	Resin Hardener Aggregate	one 22 lb pail (10 kg) one 6.6 lb bottle (3 kg) four 47 lb bags (21.3 kg)	1.7 (0.05)			
	MasterFlow 649					
How to Apply APPLICATION 1. Chip foundation. Form using a headbox. 2. Mix resin and hardener first. 3. Mix aggregate with resin.	57.4 lb unit Resin Hardener Aggregate	one 5.6 lb pail (2.5 kg) one 1.87 lb bottle (0.85 kg) one 50 lb bag (22.7 kg)	0.43 (0.012)			
4. Place grout.	230 lb unit		1.73 (0.05)			
<ul> <li>5. Consult specific product data sheet before installation.</li> <li>ACCESSORIES AND TOOLS REQUIRED</li> <li>Proper Personal Protective Equipment</li> </ul>	Resin Hardener Aggregate	one 22.3 lb pail (10.1 kg) one 7.6 lb bottle (3.4 kg) four 50 lb bags (22.7 kg)				
<ul> <li>(PPE) for products being used</li> <li>Slow speed electric drill with Jiffy-type paddle</li> <li>Mortar mixers</li> <li>Forming material</li> <li>Paste wax or form release</li> <li>Wheelbarrows and/or buckets for transporting grout</li> </ul>	<b>MasterFlow 668</b> 59.7 lb unit Resin Hardener Aggregate	one 8.33 lb can (3.78 kg) one 1.37 lb bottle (0.62 kg) one 50 lb bag (22.7 kg)	0.47 (0.013)			
Steel straps	MasterFlow 678		1.8 (0.05)			
<ul> <li>Duct tape to seal leaking forms</li> </ul>	240 lb unit Resin Hardener Aggregate	one 16.0 lb pail (7.3 Kg) one 8.0 lb bottle (3.6 Kg) four 54 lb bags (24.5 kg)				