### STEP BY STEP INSTALLATION PROCEDURE FOR EPOXY CHOCKS – TECHNICAL GUIDE #694



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**VERSION: A** 

#### DESCRIPTION

This document describes the standard and typical installation procedure for the effective installation of Chockfast two-component epoxy chocking compounds, including Chockfast Orange, Chockfast Black, and Chockfast Gray. While this document is intended to guide the overall installation process, it should not be considered as a substitute for experienced and trained installers who can fully consider the unique aspects of each specific installation. Please consult your local representative of our Worldwide Distributor Network for application specific guidance and recommendations.



#### STEP-BY-STEP CHOCKING PROCEDURE

. Configure the Chockfast pour with properly sized chocks.

Individual chocks should not exceed 12.8 L (780 in<sup>3</sup>) in volume or lengths of 610 mm (24"). It is recommended that each chock contain at least one anchor bolt, preferably two.

Please refer to Technical Guide 692 for additional guidance on sizing chocks based on maximum static load.

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### STEP BY STEP INSTALLATION PROCEDURE FOR EPOXY CHOCKS – TECHNICAL GUIDE #694

<ul> <li>Chockfast</li> <li>Open Cell Foam Damming</li> <li>ITW Release Agent</li> <li>Strip Caulking / Putty</li> <li>IXT-59 (or equivalent) Solvent</li> <li>IR / Non Contact Thermometer</li> <li>Foam Backed Tape</li> <li>A Chockfast</li> <li>1/2" Variable Speed Drill Motor</li> <li>Jiffy Mixing Blades</li> <li>Thick Metal Dams</li> <li>Non Melt Grease</li> <li>Safety Glasses</li> <li>Disposable Vinyl Gloves</li> <li>Contact Cement</li> </ul>	4. Gather all necessary materials.
Warehouse	<ul> <li>5. Pre-condition the Chockfast Resin and Hardener, as well as the application area.</li> <li>It is recommended to condition everything at an ideal and uniform temperature of 20°C to 27°C (68°F to 80°F).</li> <li>All material components should be conditioned to the recommended temperature at least 24 hours before use to promote the best mixing and installation.</li> </ul>
ENGINE BED FOUNDATION	<ul> <li>6. Clean all surfaces of oil, grease, mill scale, paint, and rust so that Chockfast makes firm contact with the foundation and bedplate.</li> <li>It is also very important to remove all burrs and welding slag.</li> </ul>
	<ul> <li>Insert flexible damming along the back and on either side of the chock.</li> <li>For open cell foam damming, a compression of approximately ¼" (6 mm) works effectively to stay in place during the pouring while also permitting air to escape.</li> </ul>

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9. Spray with ITW Release Agent. 10. Prepare to plug the bolt holes with greased bolt, Armaflex tubing covered bolt, greased wooden plug, or foam tubing with a wooden dowel for stiffness. Clearance bolts should be wrapped or otherwise isolated from bonding to the poured chocks to allow for free stretch of the bolt when tensioned. Fitted bolts should be covered with Release Agent. 11. Insert bolt or plug. Install nut handtight only.

#### STEP BY STEP INSTALLATION PROCEDURE FOR EPOXY CHOCKS – TECHNICAL GUIDE #694



ITW PERFORMANCE POLYMERS

### STEP BY STEP INSTALLATION PROCEDURE FOR EPOXY CHOCKS – TECHNICAL GUIDE #694



### STEP BY STEP INSTALLATION PROCEDURE FOR EPOXY CHOCKS – TECHNICAL GUIDE #694



#### ITW PERFORMANCE POLYMERS



			<ul> <li>21. Pour the Chockfast into the lowest corner of the overpour area. Continue to pour the Chockfast into the chock area slowly and steadily.</li> <li><u>DO NOT</u> scrape residue from the bottom or sides of the can.</li> </ul>
12 mm ()s inch)		<ul> <li>22. Fill the overpour area until the top of the Chockfast is at least 12 mm (½ inch) above the bottom of the bed plate.</li> <li>Continually check for leaks. Do not leave until the chocks are hard.</li> </ul>	
CHOCKFAST ORANGE RECOMMENDED INITIAL CURE TIME		23. Allow the Chockfast to complete the initial cure. The included Cure Time	
13 – 18°C	55 – 68°F	48 hrs	Recommendations are for Chockfast Orange. Please Refer to the specific Product Data Sheet, as found at <u>www.itwpp.com/chockfast</u> , for recommended cure time based on temperature for Chockfast Gray and Chockfast Black.
19 – 21°F	66 – 70°F	24 hrs	
ABOVE 21°C	ABOVE 70°F	18 hrs	



### STEP BY STEP INSTALLATION PROCEDURE FOR EPOXY CHOCKS – TECHNICAL GUIDE #694



#### ITW PERFORMANCE POLYMERS





#### ADDITIONAL RESOURCES

In addition to the recommendations provided in this Technical Guide, please also refer to the following documents available at <a href="http://www.itwpp.com/chockfast">www.itwpp.com/chockfast</a>.

- Technical Guide 692 General Guidelines for Marine Chock Designers with Chockfast® Orange & Gray
- · General Arrangement Drawing for Epoxy Chock Installations

#### REFERENCE

For any additional information or recommendations beyond the typical ones listed in this document, please contact your local representative of our Worldwide Distributor Network or ITW Performance Polymers for further support.

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