

1.1 WHAT IS AN EPOXY RESIN CHOCK?

Metal chocks and shims have been used for many years to adjust the height and alignment of propulsion machinery. This requires skilled work and takes time. Epoxy resin chocks are used for the same purposes. They require less skill and less time to install, yet they perform better than iron chocks. An epoxy resin chock is an engineering product which is cast-in-place to form permanent chocks for machinery support. It can be specified for chocking hot vibrating machinery, or critical alignment installation. A resin chock gives a better result for a longer period than a conventional iron chock. The basis of success of resin chocks is the low modulus and near perfect cast-in-suit fit over a large surface area, combined with a high coefficient of friction and a high coefficient of thermal expansion. These together hold machinery securely, permanently, and without fretting or wear to the chock contact surfaces.

Resin chocks are economical and convenient for new building installation or for retrofits, due to the absence of any requirement for machining. Installation time is measured in days rather than in weeks normally required for iron chocking. It is used widely for marine main engines of any size, auxiliaries, steering gear, deck machinery and crane rails. Industrially it is used for generators, compressors, crushers and a wide range of grouting applications.