MASTIC

Vibration damping of vibrating structures is an important aspect of ships and submarines. This is because the structural vibrations results in propagation of under-water acoustic noise and can be detected using Sound Navigation and Ranging (SONAR) systems. Therefore, suitable means of damping the hull structure vibration of the vessel is very important for rendering the warship/submarine acoustically stealthy.

The Developed material **Mastic,** a two component curable system is designed to impart very effective to adequately damp structural vibration of the metallic structures, such as hull plates, engine foundation base etc at lower frequencies. The components are mixed in proper proportion and applied on the vibrating substrate. Upon curing, the mass acts as a passive damping material thereby reducing the intensity of vibration in desired frequency range.

Application:

1. Mastic is highly viscous putty like substance.
2. It is used as UCLD to reduce of under-water noise of ships & submarines.
3. Two Component System: Base Component (epoxy) & Hardener component.

Salient features:

i. 100% solid (No VOC)

ii. Application by trowel or putty blade.

iii. Thickness can be built in one coat.

iv. Can be applied on both verticals and horizontal surface.

v. Cure time: 48 h