

## Introduction

SealXpert® Marine Chock is a special, two-component pourable chocking compound enriched with high-grade fillers. SealXpert® Marine Chock is designed to withstand severe marine and industrial environments involving a high degree of both physical and thermal shock. The compound is non-shrinking and has very high impact and compressive strength.

## Features

- Application versatility
- Withstands temperatures up to 121°C
- Self-leveling, fast curing, non-shrinking
- Excellent chemical and vibration resistance
- Excellent compression strength
- 100 % solids epoxy system
- Allows flow into hard to reach areas

## Typical Applications

Specifically developed for chocking marine main propulsion and auxiliary machinery. Other shipboard applications include sterntube and strut bearings, pintle and rudder bearings, pedestal bearings, steering gears, stern winches, engine room pumps, cargo pumps, cable penetrations, large ball or roller bearings, bow thrusters and anchor windlasses

## Typical Properties

Mix ratio: by weight	5:1	
By volume	3.4:1	
Coefficient of linear thermal expansion	$43.8 \times 10^{-6}$ 1/K	
Linear shrinkage	$15 \times 10^{-4}$ mm/mm	ASTM D-2566
Compressive strength	164 N/mm <sup>2</sup>	ASTM D-695
Compressive modulus of elasticity	5610 N/mm <sup>2</sup>	ASTM D-695
Tensile strength	49.4 N/mm <sup>2</sup>	ASTM D-638
Elastic shear modulus	2360 N/mm <sup>2</sup>	
Izoda impact	17.2 J/m	ASTM D-256
Hardness – Shore D	83 Shore D	ASTM D-2583
Friction coefficient	0.57	
Specific gravity	1.64 kg/dm <sup>3</sup>	
Pot life	30 min. @ 25°C 10 min. @ 50°C	
Cure time	48 hours @ 16°C 28 hours @ 21°C	

## Direction for Use

Surface Preparation:

- 1) Store kits at 15°C to 25°C for at least 24 hours before beginning the chock pour.
- 2) Bedplates and machinery should be at least @ 15°C to ensure complete flow.
- 3) Once the engine is in position, install sides and backs of dams for the chocks in a thickness of 12 to 70 mm. Check dams with a flashlight to assure

tightness. When a thicker chock is required, use the multiple pour technique. Allow each pour to set and cool before proceeding. Subsequent pours should be made within 12 hours of previous pour.

- 4) Apply general-purpose weather stripping to the front edge of bedplates that will be in direct contact with epoxy excess to eliminate cracking.
- 5) Release agent or grease should be used in the prepared chock area and on exposed anchor bolts to facilitate chock removal for realignment.
- 6) Position front dams using an angle iron large enough to permit a minimum of a 12.5 mm head above the bedplate surface. Position dams from 16 to 19 mm away from bedplate edges.

Mixing:

- 1) Check Marine Chocking temperature and bedplate temperature.
- 2) Add the required amount of hardener (per the reduction chart) to the contents of the resin can and mix with a heavy-duty drill for 1 to 5 minutes or until mixture is homogeneous. Mix at moderate speed, but do not allow a vortex to form. If the mixer vortexes, air will be drawn in which will cause bubbling of the chocking compound. Let the mixed product stand for 3 to 5 minutes to de-aerate.

Application Method:

- 1) Pour chocks from one corner to maximize the escape of air and assure good surface contact. At 25°C working time is approximately 10 to 15 minutes.
- 2) Allow chocks to cure the following minimum times before torquing bolts and checking alignment:
  - 35 hours at 15°C
  - 24 hours at 21°C
  - 16 hours at 26°C
  - 11 hours at 32°C.

Technical Tips for Working With Epoxies:

Working time and cure depends on temperature and mass:

- The higher the temperature, the faster the cure.
- The larger the mass of material, the faster the cure.

To speed the cure of epoxies at low temperatures:

- Store epoxy at room temperature.
- Pre-heat repair surface until warm to the touch.

To slow the cure of epoxies at high temperatures:

- Mix epoxy in small masses to prevent rapid curing.
- Cool resin/hardener component(s).

## Safety and Handling Consideration

Keep away from children.

Avoid contact with skin and eyes. Wear proper protective equipment.

In case of contact with skin, rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

In case of contact with eyes, wash with plenty of water immediately and continue for several minutes, holding eyelid open. Consult a doctor.

Ensure adequate ventilation.

Extract when the product is heated. Keep away from heat and direct sunlight.

More details, please refer to MSDS of this product

**Recommended Storage:**

Store product in the unopened container in a dry location. Material removed from containers may be contaminated during use. Do not return liquid to original container. Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties.

Shelf Life: 24 month s.

Disclaimer: The information contained herein is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained by the use thereof, or that any such use will not infringe any patent. Before using, user shall determine the suitability of the product for the intended use and user assumes all risk and liability whatsoever in connection therewith.