

## TECHNICAL BULLETIN EPOCAST INDUSTRIE



### Features:

- excellent compressive and impact strength
- nearly 100 % bearing underneath supported equipment;  
extension of equipment life and cost savings due to unnecessary maintenance
- ease of use and mix (no mixing ratios to measure)
- excellent chemical resistance
- reduces vibration and impact sound
- excellent fatigue resistance
- compensates uneven, rough foundation



## General Description

The two-component pourable chocking compound is engineered for use wherever critically aligned reciprocating machinery, heavy duty rotating equipment subject to high dynamics is installed. It is also best choice for applications that have to withstand deteriorations from chemical environments.

Due to its low viscosity and to its low curing temperature as well as to its first-rate stability of adherence and its resistance to chemicals it is in the best way suitable for applications in the construction of power-stations and industrial plants.

Because of its excellent material properties (compressive strength 155 N/mm<sup>2</sup>; service temperature of machineries from -100°C to +80°C) makes it also the best solution for pumps, compressors, turbines, diesel engines and generators or crane rails and many more applications.

## Application

The principle is simple. The engine or machinery is aligned on wedges or jacking screws and the concrete/cementitious or steel surfaces cleaned. A soft foam shuttering or damming is inserted to form the sides of the mould under the bedplate, metal damming is used to form the external side of the mould and to form a pouring space. Release agent is sprayed in and bolt holes are plugged before pouring.

## Preparations

The surfaces to be chocked by **EPOCAST - INDUSTRIE** have to be free of oil, dirt and paint. The concrete foundations are to be dry, clean and free of cement remnants.

The resin component **EPOCAST - INDUSTRIE** is to be preheated at a temperature of about 30°C. The surfaces to be chocked are to be dammed with appropriate materials and are to be prepared for casting.

## Mixing of resin and hardener

Before starting to mix, protective clothing is to be taken on (pair of glasses, gloves).

The whole quantity of hardener is to be added to the preheated resin component and is to be mixed with appropriate mixing tools homogeneously (drilling machine with mounted mixer). Mixing speed: approx. 500 rpm – duration of the mixing: about 2-3 min. For best mixing results use our HS 2 mixer.

The activated resin **EPOCAST - INDUSTRIE** is to be poured immediately after mixing into the prepared shocking area. It is important to reduce the free fall to a minimum while pouring **EPOCAST - INDUSTRIE** in order to avoid inclusions of air.

The curing will take place without any shrinkage. After curing we will have a sticky-hard material of wear-resisting quality at hand.

### Curing time

at 13°C - 48 hours at 20°C - approx. 24 hours

The duration of the curing-period can be reduced by heat input from the outside by appropriate heating devices after the solidification of the resin has taken place.

Hardness can be checked by a hardness tester. After achievement of necessary hardness adjusting screws can be removed, rubber tube can be taken out off the bore holes and anchor bolts tightened.

### Shelf life

**EPOCAST - INDUSTRIE** has a shelf life of approx. 18 month.

### Advice for safety

While working with **EPOCAST-INDUSTRIE** the wearing of protective clothing is recommended. It is necessary to pay attention to sufficient fresh-air ventilation at the working-place. After contact of setting agent or activated resin with the skin, affected parts of the skin are to be washed under running water and treated with soap. In case the eye(s) have been affected, at once the eye and the eyelid are to be washed under running water; in this case a doctor has to be consulted. Furthermore the safety measurements in our actual Material Safety Data sheet for resin and hardener component have to be noted. For more details please contact us under phone nr. + 49 (0) 431-717 91 0 or email to: [Info-springer@Springer-Kiel.com](mailto:Info-springer@Springer-Kiel.com)

### Properties of EPOCAST-INDUSTRIE

Pourable resin type:	EPOCAST – INDUSTRIE is available in units of 4,0 ltr. - respectively: 1 unit: resin + hardener
Compressive Strength:	155,0 N/mm <sup>2</sup>
Elastic modulus:	5580 N/mm <sup>2</sup>
Barcol Hardness:	40
Heat resistance:	from -100°C to + 80°C
Working Temperature:	from 13°C to 50°C
Chock Thickness:	min. 13 mm up to max. 100 mm in one layer
Vibration absorbtion:	Vibrations are considerably reduced in comparison to steel chocks or plain concrete foundations. The reason for this is not only the low E-modulus but also on the large surface contact area and direct installation, load capacity of resin chock 100 %

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