



Weicon Chocking Backing Compound

Weicon Chocking Backing Compound (often referred to as Weicon CBC) is an epoxy resin system that has been specially developed for shimming and back filling of difficult to align systems. In these applications it serves as a replacement for fittings and worn metal sheets while ensuring direct contact to foundation plates. Weicon CBC will bear heavy loads and, due to the very low shrinkage achieved with this product, machinery and equipment remain constant in their orientation after casting with Weicon Chocking Backing Compound.

Weicon CBC has a low viscosity which allows it to be poured when required and has very good adhesion to steel. In addition, CBC has good compressive strength and is resistant to oils, fuels and many chemicals whilst also withstanding long term exposure to temperatures up to 160°C (once cured).

Key Features

- Vibration Resistant
- Impact Resistant
- Long Lasting
- Liquid and Self Levelling
- Easy to Apply to Irregular Surfaces and Cavities
- Long Pot Life of 30 Minutes
- Chemical Resistant
- Resistant to Fracturing, Breaking and Ageing
- Almost Zero Shrinkage

Applications

- Electric Motors
- Gears
- Stabilisers
- Flaps
- Masts
- Antennae
- Winches
- Linkages
- Crane Rails
- Pumps
- And many, many more.

Advantages of Weicon CBC when compared to Steel or Rubber backings.

Weicon Chocking Backing Compound offers a number of advantages over steel or rubber mounting materials though these their applicability depends on the application.

In general, steel does not absorb any vibrations and can cause noise. Moreover, higher wear and material fatigue will also be evident over time. In contrast, rubber will absorb vibration and suppress noise but each mounting piece must be individually cut and placed while the stress requirements placed on the mount must also be carefully assessed when selecting an elastomer in the first place. Without the addition of other compounds, neither steel or rubber offers the added benefit of adhesion presented by casting compounds.

Visit: www.agaus.com.au

Phone: 1300 098 060

Important

This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.



Weicon Chocking Backing Compound

Properties

Composition	Aluminium Filled Epoxy Resin
Mix Ratio by Weight (%) Resin / Hardener	100: 30
Density of the Mixture	1.5 g/cm ³
Pot Life of 10kg of Material At 20°C	30 Min.
Viscosity of the Mixture (25°C)	45,000 MPa
Colour After Curing	Grey
Processing Temperature	+5°C to +40°C
Mechanical Strength (50%) When Curing at 20°C	12 Hours
Final Strength (100%) When Curing at 20°C	24 Hours
Mean Compressive Strength (DIN EN ISO 604)	70 MPa
Strength E-Module (DIN EN ISO 527)	4,170 MPa
Shore Hardness (DIN EN ISO 868/3s)	80 Shore D
Shrinkage	0.02%
Elongation at Break (DIN EN ISO 527)	0.7%
Temperature Resistance	-40°C to +160°C

Processing Instructions

Before processing Weicon CBC the following points should be carefully followed:

- The surface(s) must be clean, dry and free of grease.
- This also applies to the tools and mixing containers being used.
- Strength of adhesion can be increased by mechanical roughening of any bonding surfaces (particularly when working with very smooth surfaces).
- The resin component of Weicon CBC should be pre-heated to about 25°C.
- The casting area must be dammed with a suitable material and prepared for casting (foam rubber strips, steel strips, plastic strips, sealing putty combined with a mould release agent should suffice).
- You will also need a drill and a spiral stainless steel stirrer (or dedicated mechanical mixer).
- An electrical hot air blower may be used for speeding up curing.

Precautions

It is highly recommended that you consult the Safety Data Sheet for this product for important information on the physical, safety, toxicological and ecological data and regulations for this product.

Visit: www.agaus.com.au

Phone: 1300 098 060

Important

This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.



Weicon Chocking Backing Compound

Mixing

Before adding the hardener, the resin with its fillers must be stirred carefully and without bubbles. The components should at least be stirred for four minutes, without forming bubbles and with a mechanical stirrer at low speed with 300-1000 t/min, to obtain a homogeneous compound.

Attention: To avoid the formation of bubbles, make sure the drill is turned off when put in/pulled out of the resin container. Only mix as much of the product as can be applied within the pot life. The given mixing ratio by weight (max. deviation +/- 2%) must be strictly followed.

Pot Life and Processing Time

The listed pot life refers to a preparation quantity of 10kg at 20°C material temperature. When mixing a larger amount, the material will cure faster due to the heat reaction associated with epoxy resins. The pot life is extended when the total amount is portioned. Ideally, the processing of Weicon CBC should take place at room temperature (20°C approx.). Higher temperatures will shorten the pot life and cure time.

As a rule of thumb, for every 10°C above 20°C reduce the estimated times by around half. Temperatures below 16°C extend the pot life and curing times. At temperatures below about 5°C no reaction at all make occur.

Casting

Apply the carefully mixed casting resin immediately. To avoid bubbles ensure you pour as close to the surface as possible.

Curing and Machining

Weicon CBC will be completely cured after about 24 hours (at 20°C). This curing time may be reduced by applying external heat for approximately 1-2 hours to the casting resin after solidification.

Storage

Weicon CBC can be stored at room temperature (20°C) and should be kept in a dry place. Unopened containers stored between +18°C and +28°C have a minimum shelf life of at least 24 months.

Availability

Weicon Chocking Backing Compound is available from Associated Gaskets in the following kit sizes:

- 3kg
- 10kg

Each kit contains the correct proportions of resin and hardener, plastic gloves and a plastic spatula. Extra space has been left in the resin container to allow you to add all of the hardener and mix. Assuming you're using the whole kit in one go, this makes achieving the correct mixing ratio simple.

Custom kit sizes and more information is available upon request.

Visit: www.agaus.com.au

Phone: 1300 098 060

Important

This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.