

## ABRIGO® solid board

EXCOR® ABRIGO® solid board combines the established anti-corrosion effect of EXCOR® with the technical packing benefits of solid board – in the form of boxes, workpiece holders, stacking and transport containers, and interlayers.

The combination of dry, temporary corrosion protection using the VCI method and the versatile design options of solid board saves the user from having to take additional anti-corrosion measures. Using manual or automated processes, the solid board packaging first accommodates the metal parts to be transported. The corrosion protection works both in direct contact and via the vapor phase: the active anti-corrosion ingredients bound in the ABRIGO® solid board evaporate to form a gas in the sealed paper packaging and protect the metal surface. When the ABRIGO® packaging is removed properly, the protective film formed on the metal surface evaporates without any residue within 1 to 2 hours. The packed goods can be used without cleaning or further processing. The corrosion protection therefore comes from the packaging itself. It can remain in place for up to 2 years. It is even possible to open and re-seal the packaging several times to remove goods. In addition, it is very easy to print on solid board boxes. If required, they can therefore be used for product identification or for advertising purposes.

### ▶ ADVANTAGES

corrosion protection is an integral part of the packaging

extensive experience in the development of automated filling and packaging processes

high-quality printing possible

solid board boxes require 1/3 less storage volume than corrugated cardboard boxes

less contamination from fibers and particles in cutting and punching processes compared to corrugated cardboard

no danger from skin contact or inhalation if used properly

meets TL 8135-0002, Level 3

**EXCOR®: The corrosion protection that comes from the packaging!**

### ▶ Protective effect\*

Type E: steel, cast steel, partly galvanized steel, Cr, Al 4xxx (Si > 7%), cast iron

Type NE(C): Cu, brass, Al 2xxx (Cu) and 5xxx (magnesium) possible

Type MM: steel, galvanized and tin-plated steel, Cu, brass, aluminum 2xxx (Cu), Al 4xxx (Si > 7%), 5xxx (Mg), 6xxx (Mg, Si), 7xxx (Zn), other Al alloys on request, combinations of the above metals

Type A: steel, galvanized steel, Cu, brass, aluminum 2xxx (Cu), Mg alloys possible, cast iron

\* For metal parts with unusual surface finishes, e.g. very rough surfaces or adhesive residues from processing agents, it is advisable to carry out tests using model packaging in a climate that simulates actual conditions before using EXCOR® VCI materials on a large scale. Climate test cabinets and chambers (up to a volume of 16 m<sup>3</sup>) are available for this purpose at EXCOR® Korrosionsforschung GmbH in Dresden.

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## Technical data

**Brief description** EXCOR® ABRIGO® solid board is an anti-corrosion material based on solid board, treated with an EXCOR® VCI coating solution with integrated VCI active ingredients and contact inhibitors.

**Dosage** 1 m<sup>2</sup> ABRIGO® solid board can protect up to 10 m<sup>2</sup> of metal surface. As factors such as pretreatment of the parts, packaging design, and logistics processes can influence the protective effect, technical coordination of the dosage may be advisable. Our application engineers will be happy to advise you.

**Development phase of the active ingredient** Approx. 1 hour in an enclosed and sealed packaging space of 1 m<sup>3</sup> and at a temperature of 20 °C. The closer the production part to be protected is to the VCI-releasing solid board, the shorter the development phase.

**Effective period** Up to 2 years from production if application instructions are observed. If the application instructions and specific logistical and technical packaging requirements are observed, long-term corrosion protection of up to 15 years is possible.

**Storage** EXCOR® ABRIGO® can be stored for up to 2 years as delivered in its sealed packaging and protected from direct sunlight, moisture, and dirt.

**Specifications for loading, transport, and storage** The parts to be accommodated should be approximately the same temperature as the ambient air. The metal parts should be protected from corrosion-promoting perspiration during handling by wearing protective gloves. For longer transport by land or sea, it is advisable to secure the entire load unit with stretch or shrink film.

### Quality assurance



For each production run of VCI packaging, EXCOR® checks representative samples for the content of corrosion inhibitors. The emission rate of the VCI components is checked by sampling. TÜV Süd certifies the testing, measurement methods, and QM processes used.

## Delivery forms

Grey board  
300–3,000 g/m<sup>2</sup>

White on one or both sides  
450–2,200 g/m<sup>2</sup>

White one side / brown on the back  
450–2,200 g/m<sup>2</sup>

PE coating available with and without VCI  
700–2,000 g/m<sup>2</sup>

Max. sheet format  
1,500 x 1,600 mm

On a roll  
150–850 g/m<sup>2</sup>

Packaging with multicolored  
offset and flexo printing

Packaging designs in accordance with  
FEFCO/ECMA and special forms

### Available as standard from the warehouse

EXCOR® ABRIGO® solid board active on both sides thanks to a VCI PE coating  
Type E, 1,225 g/m<sup>2</sup>  
1,050 x 670 mm  
1,420 x 1,050 mm

## Disposal

Can be recycled for materials or energy in accordance with local regulations.  
Observe safety datasheet.

## Health

Classification not required under 1272/2008/EC (CLP Regulation on Classification, Labelling and Packaging of Substances and Mixtures).

No risk to the skin in dermatological testing.

No monitoring under TRGS 615 and TRGS 900.

### Contact us at:

**ZERUST**  **EXCOR**

### EXCOR Korrosionsschutz-Technologien und -Produkte GmbH

Tonlandstraße 2  
34346 Hann. Münden  
Germany

Tel.: +49 5541 7062-00  
Fax: +49 5541 7062-10  
info@excor.de, www.excor.de