

VALENO® skin film ABRIGO® skin board

EXCOR® VALENO® VCI skin packaging combines the established corrosion protection of EXCOR® with the benefits of skin packaging to protect metal surfaces against mechanical and corrosive factors.

The EXCOR® active anti-corrosion ingredients are embedded in the polyethylene of the skin film and in the skin board. They are released by sublimation – in other words, as a gas via the vapor phase. The corrosion protection works both in direct contact and via the vapor phase in sealed packaging systems. A combination of EXCOR® VALENO® skin foil and EXCOR® ABRIGO® skin board is recommended because cardboards can have a corrosion-promoting effect at points of contact with uncoated metal surfaces that have no corrosion protection.

Following the skin application process, an invisible, odorless, and highly effective protective film is formed on the metal surface of the packed goods, which protects the metal against corrosion effectively as long as it remains in the packaging!

The anti-corrosion properties meet the standards of TL 8135-0002, Level 3 and TL 8135-0043, Level 3.

When the skin packaging is opened, the protective film evaporates from the metal surface without any residue within 1 to 2 hours.

ADVANTAGES

protection against mechanical and corrosive factors in one process

can be processed on all standard skin machines

form-fitting and good adhesion

abrasion-resistant

no danger from skin contact or inhalation if used properly

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 m³) are available for this purpose at EXCOR® Korrosionsforschung GmbH in Dresden.

Skin film/ skin board



Technical data

Brief description

EXCOR® VALENO® skin film is an anti-corrosion film made from polyethylene with VCI active ingredients integrated into the polymer matrix. It is odorless, abrasion-resistant, and has good resistance to ageing.

EXCOR® ABRIGO® skin board is an anti-corrosion cardboard, treated with a porous EXCOR® VCI coating and is air-permeable, abrasion-resistant, and odorless.

An excellent, durable adhesion between the skin film and the board is created during the skin application process.

Dosage

The entire surface area of the part that requires protection must be covered.

Development phase of the active ingredient

Following the skin process, the corrosion protection is fully effective after approx. 30 minutes.

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.

Application note

In order to optimize the skin application results and to achieve maximum cost-effectiveness, technical coordination with the skin machine concerned may be necessary!
Our application engineers will be happy to advise you.

Storage

VALENO® skin film in its delivered state 3 years

ABRIGO® skin board in its delivered state 2 years

Keep away from direct sunlight, moisture, and dirt.

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

EXCOR® VALENO® skin film

Width: 280–1,200 mm

Thickness: 80–450 µm

Sleeve diameter: 70 mm

printable

EXCOR® ABRIGO® skin cardboard

EXCOR® ABRIGO® skin cardboard various corrugated and solid cardboard grades available

Width: 100–1,600 mm

Length: up to 2,100 mm

printable

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 required 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