



ABRIGO® paper

EXCOR® ABRIGO® VCI corrosion protection paper combines the familiar excellent corrosion protection properties of EXCOR® with the tried-and-tested qualities of traditional paper packaging.

ABRIGO® is based on specified 1A kraft paper treated with a VCI solution. It is durable, versatile, abrasion-resistant and pleasant to handle, while the fact that VCIs are diffused from both sides rules out application errors. The VCI impregnation contains proven EXCOR® active corrosion protection substances which are given off at a measured rate by sides of the paper. Depending on the design, specific metals and alloys are protected both through direct contact and via the vapour phase. Once the ABRIGO®-packaging is opened the protective film evaporates from the metal surface without residue within one to two hours, and the packed product can be assigned to its intended use without having to undergo any further processing.

ABRIGO® retains its packaging-specific properties, is non-slippery and dry. Thanks to the measured diffusion of the active corrosion protection substances, ABRIGO® remains effective for a significantly longer period. Its corrosion-preventing properties conform with the requirements of TL 8135-0002, Level 3. ABRIGO® can be used as individual packaging, as interleaving layers or simply as VCI dispensers. As well as our standard sizes, custom sizes can be provided in both roll and sheet form. This flexibility permits sparing and economical use of materials.

Protective effect*

Type E: Steel, cast steel, partially galvanised steel, Cr, Al 4xxx (Si > 7%), cast iron

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

Type MM: Steel, galvanised and tin-plated steel, Cu, brass, aluminium 2xxx (Cu), 5xxx (Mg), 6xxx (Mg, Si), 7xxx (Zn), other Al alloys on request, also combinations of the above metals

Type A: Steel, galvanised and tin-plated steel, Cu, brass, aluminium 2xxx (Cu), Mg alloys possible, cast iron

* In the case of metal parts with unusual surface properties, such as high levels of roughness or coated with residue from processing media, before the large-scale commercial employment of EXCOR VCI materials we advise conducting tests on sample packaging in an environment simulating the actual conditions of use. Various climatic test cabinets and environmental chambers up to 16 m³ in volume are available for the purpose at EXCOR Korrosionsforschung GmbH in Dresden.

ADVANTAGES

Active on both sides even at high relative humidities of $\leq 98\%$

Abrasion-resistant

Recyclable, can be disposed through household refuse & landfill, can be incinerated

Poses no health hazard, non-toxic, no risk posed by skin contact or inhalation

Conforms to TL 8135-0002, Level 3

EXCOR® the corrosion protection that comes out of the packaging!

ABRIGO® paper



Technical Data

Brief characteristics	EXCOR® ABRIGO® is a corrosion protection paper based on 40 g/m ² or 70 g/m ² kraft paper treated with an EXCOR® VCI coating solution. Active on both sides and abrasion-resistant.
Appearance	Brownish typical paper colour, colour printed for differentiation purposes (Type E yellow, Type NE blue & Type MM green), Type A can be printed to individual requirements.
Dosing	One m ² of ABRIGO® can protect up to 10 m ² of metal surface. The dosing is influenced by a variety of factors, such as the packaging design, logistical processes, pretreatment of parts, etc.), and because of this prior technical consultation may be necessary. Our application engineers will be happy to advise you.
Active substance build-up phase	About one hour in one m ³ of tightly sealed packaging space at a temperature of 20°C. The closer the product is to the VCI dispenser the shorter the build-up phase.
Active life	Up to two years provided instructions are followed. Long-term corrosion protection for up to 15 years is possible if the instructions and specific logistic and technical packaging guidelines are followed.
Storage	As delivered or in Type E sealed packaging, EXCOR® ABRIGO® can be stored for one year. Types A, MM and NE(C) and NE(S) can be stored for two years.
Approval	Approved by: Audi AG, BMW AG, Daimler AG, Volkswagen AG

Technical Data	Grammage	DIN 53 479	40 g/m ² or 70 g/m ² kraft paper	
	Bursting resistance (mean value)	ISO 2758	40 g/m ²	170 kPa
			70 g/m ²	310 kPa
Abrasion wheel test at 100 rpm (mean value)	DIN 53 109	smooth side	61 mg	
		rough side	52 mg	

Quality assurance



EXCOR® tests representative samples from every production batch of VCI packaging for their corrosion inhibitor content. The emission rate of VCI components is tested on a random sampling basis. The German testing body TÜV Süd certifies that the concentrations of VCI active substance or the VCI system have been inspected and approved.

Delivery forms

EXCOR® ABRIGO® is available in various paper qualities and grammages

- Rolls
- Sheets

Optional:

Polyethylene coating on one side
Customer-specific printing

Available as standard from stores:

EXCOR® ABRIGO® paper
Type E, A und MM
40 g/m² und 70 g/m²
780 mm, 25 kg / roll

Disposal

Recyclable

Can be disposed through household refuse & landfill

Can be incinerated

Health

Poses no health hazard

Non-toxic

No hazard from skin contact or inhalation

No monitoring requirements under TRGS 615 and no restrictions under TRGS 900

Contact us at:

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