

## ABRIGO<sup>®</sup> crepe paper

EXCOR<sup>®</sup> ABRIGO<sup>®</sup> VCI anti-corrosion crepe paper combines the well-known superior anti-corrosion properties of EXCOR<sup>®</sup> with the convenient characteristics and functionality of crepe paper.

The creping process allows the paper to stretch further in the longitudinal direction. This means that crepe paper can fit the contours of the surface of the packed goods better. Crepe paper provides added cushioning protection to items packed in it.

ABRIGO<sup>®</sup> crepe paper combines these packing-specific characteristics of crepe paper with the established corrosion protection of EXCOR<sup>®</sup>. Depending on the design of the crepe paper, it can protect specific metals and alloys – in direct contact and via the vapor phase. Active anti-corrosion chemistry bound in the crepe paper migrate from the paper into the air and metal surfaces to form a protective layer within the sealed crepe paper packaging.

Double Check with scientist this is how your inhibitor works. When the ABRIGO<sup>®</sup> crepe paper packaging is opened, the protective film evaporates from the metal surface without any residue within 1 to 2 hours. The packed goods can be used without further processing. ABRIGO<sup>®</sup> crepe paper is non-slip, dry and protects against corrosion on both sides. Through the gradual release of the active ingredients in doses, ABRIGO<sup>®</sup> remains active over a considerably longer period. The anti-corrosion properties meet the standards of TL 8135-0002, Level 3.

Raw papers from 30 to 200 g/m<sup>2</sup> can be processed into ABRIGO<sup>®</sup> crepe paper. Stretching can be set from 5 to 200 %. EXCOR<sup>®</sup> ABRIGO<sup>®</sup> crepe paper is supplied in rolls and sheets. Any roll types with a 76-mm core and narrow rolls with a 30-mm core are available.

### ▶ ADVANTAGES

effective on both sides, even at high relative humidity ( $\leq 98\%$ )

abrasion-resistant

no danger from skin contact or inhalation if used properly

meets TL 8135-0002, Level 3

**EXCOR<sup>®</sup>: 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

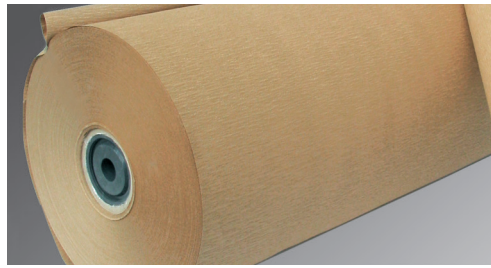
Type NE(C): Cu, brass, Al 2xxx (Cu) and 5xxx (magnesium) possible

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<sup>®</sup> 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<sup>®</sup> Korrosionsforschung GmbH in Dresden.

# ABRIGO® Crepe paper



## Technical data

<b>Brief description</b>	EXCOR® ABRIGO® anti-corrosion crepe paper based on a kraft paper of 30–200 g/m <sup>2</sup> with standard creping and widths or customized finish. It is treated with an EXCOR® VCI coating solution that is effective on both sides and is abrasion-resistant.						
<b>Dosage</b>	1 m <sup>2</sup> ABRIGO® 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.						
<b>Development phase of the active ingredient</b>	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 packaged goods to be protected are to the VCI dispenser, the shorter the development phase.						
<b>Effective period</b>	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.						
<b>Storage</b>	EXCOR® ABRIGO® can be stored for up to 2 years as delivered in its sealed packaging and protected from direct sunlight, moisture, and dirt, under normal storage conditions.						
<b>Approvals</b>	Approved by: Audi AG, BMW AG, Daimler AG, Volkswagen AG						
<b>Technical data</b>	<table><tr><td>Available roll widths</td><td>can be adapted individually from 200 cm to e.g. 100 cm, 66.7 cm, 50 cm or 40 cm</td></tr><tr><td>Available core widths</td><td>76 mm core or 30 mm narrow core</td></tr><tr><td>Possible stretching*</td><td>5–200% (increase in the grammage as a result of the pleating)</td></tr></table> <p>If supplied in sheets, the creping direction must be specified in advance by indicating the side with which the creping should run in parallel.</p>	Available roll widths	can be adapted individually from 200 cm to e.g. 100 cm, 66.7 cm, 50 cm or 40 cm	Available core widths	76 mm core or 30 mm narrow core	Possible stretching*	5–200% (increase in the grammage as a result of the pleating)
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Available core widths	76 mm core or 30 mm narrow core						
Possible stretching*	5–200% (increase in the grammage as a result of the pleating)						

### 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.

\* Stretching is the term used for the increase in the grammage resulting from pleating (creping), given as a percentage. If a 70 g/m<sup>2</sup> paper is creped to 110 g/m<sup>2</sup>, it is written as crepe 70/110. This corresponds to stretching of 57%.

### Contact us at:

**ZERUST**  **EXCOR**

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## Delivery forms

Creping from  
30–200 g/m<sup>2</sup> raw paper

Stretching: 5–200 %

Formats:  
- Rolls  
- Sheets

### Optional:

- various creping grades (fine/coarse)
- one-sided polyethylene coating
- customized printing

### Available from the warehouse as standard:

EXCOR® ABRIGO® crepe paper  
Type E and Type MM, 70/110 g/m<sup>2</sup>  
Width: 1,000 mm, 25 kg/roll

Type E and Type MM, 70/110 g/m<sup>2</sup> +  
PE 30 g/m<sup>2</sup>  
Width: 1,000 mm, 25 kg/roll

## 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.

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