ASCOTRAN®
FLASH-RUST / IN-CAN PROTECTION

ASCOTEC
YOUR KEY PARTNER FOR ANTICORROSION
ASCOTRAN®

ELIMINATE FLASH-RUST AND PRESERVE FILM WATER-RESISTANCE

Whatever the field is, Construction, Do-it-yourself or Industry, waterborne coatings are widely developed to meet new VOC and regulatory requirements.

Everytime a waterborne coating is applied on metal, flash-rust phenomenon, which is immediate corrosion of metal substrates, is of concern.

In order to meet this new demand, ASCOTEC has developed a complete range of flash-rust inhibitors ASCOTRAN®. They are effective in many different situations, whatever the substrate that needs to be protected on the nature of the coating may be.
**A COMPLETE RANGE OF FLASH-RUST INHIBITORS**

Ready-to-use liquids, ASCOTRAN® are high film-forming additives and are immediately adsorbed onto the metal surface.

Compatible with the main resin combinations used for the water-based formulation, their properties remain the same. Their use dosages are very low.

Whereas usual flash-rust inhibitors reduce coatings water-resistance, the ASCOTRAN® technology combines excellent antiflash-rust performance with hydrophobic properties.

![Diagram showing ASCOTRAN® TECHNOLOGY and USUAL ADDITIVES](image)

**ASCOTRAN® KEY BENEFITS**

- Ecolabel compliant
- VOC-free
- Provide in-can protection
- Easy to incorporate
- Preserve film water-resistance
- Multi-Metallic protection
- Cost-effective
- Low use dosages

**THE RANGE**

<table>
<thead>
<tr>
<th>Specificities</th>
<th>Basics</th>
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<tr>
<td>ASCOTRAN®- H10</td>
<td>The most universal.</td>
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<td>ASCOTRAN®- H17</td>
<td>For very sensitive to flash-rust substrates.</td>
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<td>ASCOTRAN®- H18</td>
<td>High compatibility level, including into 2K systems.</td>
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<td>ASCOTRAN®- AL4</td>
<td>Multi-metal substrates. Nitrite-free.</td>
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<td>ASCOTRAN®- HPB</td>
<td>Complies with most international &amp; national standards for eco-friendly labels.</td>
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**ANTIFLASH-RUST PERFORMANCE**

ASCOTRAN® additives provide highest levels of flash-rust inhibition, at low use dosages, and then compete with high nitrite-containing additives. When the film dries under severe humidity conditions, they perform better than most usual flash-rust inhibitors.

Flash-rust comparative* test into a 1K Waterborne Acrylic DTM
Under normal drying conditions, DFT 60μm

![Bar chart showing flash-rust grade and dosage for different additives.](image)

Flash-rust comparative* test into a 2K Waterborne Epoxy DTM
Under severe drying conditions, DFT 50μm

![Bar chart showing flash-rust grade and dosage for different additives.](image)

* COMPETITORS 1, 2 and 3 are high nitrite-content additives.
**PRESERVE FILM WATER RESISTANCE**

Whereas usual flash-rust inhibitors reduce coatings water-resistance, the **ASCOTRAN®** technology combines excellent antiflash-rust performance with hydrophobic properties.

**WB 2K EPOXY PRIMER**
ASTM D870 (40°C) 250H, DFT 70 μm, CRS
Dosage in Flash-Rust Inhibitor : 0,5%

![ASCOTRAN® H14](image1)
![COMPETITOR (Nitrite-containing)](image2)
![Sodium Nitrite, Sol. 15%](image3)

**WB 2K ZINC-RICH EPOXY PRIMER**
ASTM D4585 (50°C) 750H, DFT 50 μm, CRS
Dosage in Flash-Rust Inhibitor : 0,5%

![ASCOTRAN® H18](image4)
![COMPETITOR (Nitrite-containing)](image5)
![Sodium Nitrite, Sol. 15%](image6)

**PACKAGING PROTECTION**

Coatings can be highly corrosive and can cause, in most cases, corrosion of metallic cans which contain them. **ASCOTRAN®** flash-rust inhibitors also provide in-can protection.

**IN-CAN PROTECTION**
Examples of corrosion tests without/with **ASCOTRAN®**

Wall-paint
Waterborne wood varnish