

ANTICORROSION  
ADDITIVES

# ASCONIUM®

LIQUID ANTICORROSION ADDITIVES



POWERFUL LIQUID  
LEAVES POWDER  
IN THE DUST

 **ASCOTEC**

YOUR KEY PARTNER FOR ANTICORROSION

# ASCONIUM®

## ■ AN INNOVATIVE ORGANIC AND LIQUID TECHNOLOGY FOR ENHANCED ANTICORROSION PERFORMANCE

A new technology, against ever stricter regulations

Regulations on chemicals and VOC have changed a lot over these past few years, and are still likely to evolve. Anticorrosive coatings manufacturers, therefore, have to develop new formulations with even more eco-friendly components, which often results in tricky additions and little performance.

**ASCOTEC** has developed the **ASCONIUM®** range to take up this challenge.



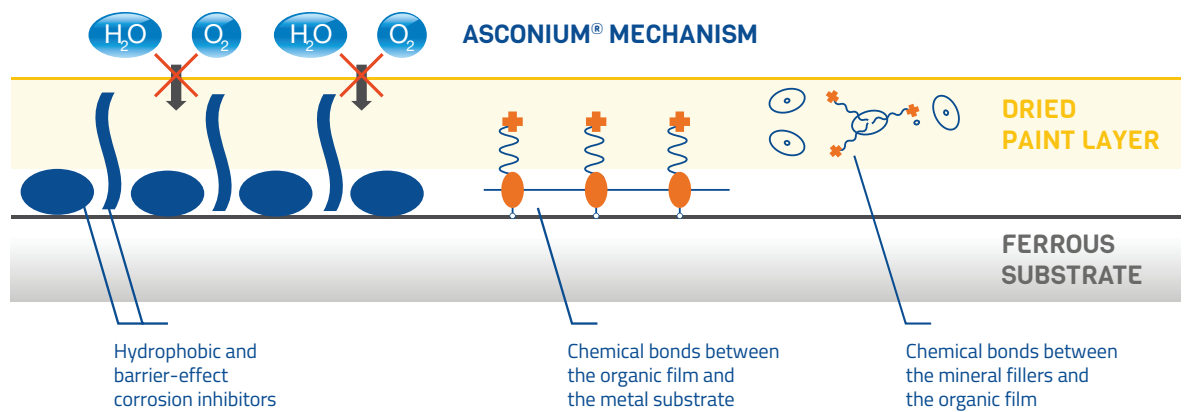
**LIQUID ANTICORROSION  
ADDITIVES**

## ■ FOUR FUNCTIONS FOR THE HIGHEST PERFORMANCE

As ready-to-use liquids, **ASCONIUM®** additives can be used in WATERBORNE, as well as in SOLVENTBORNE coatings, either as single products or in combination with active pigments.

Their performance is evident through 4 different functions:

- Creating a barrier effect through the inhibitor's adsorption onto the metal surface;
- Enhancement of the coating's water-resistance;
- Improvement of adhesion between the coating and the substrate;
- Improvement of the film cohesion.

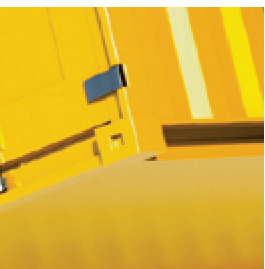


The ASCONIUM® maintain film gloss and improve paint homogeneity, thanks to their liquid form.

## ■ ASCONIUM KEY BENEFITS

According to their specific effects, both inside the coating layer and on the metal substrate, **ASCONIUM®** products provide many benefits:

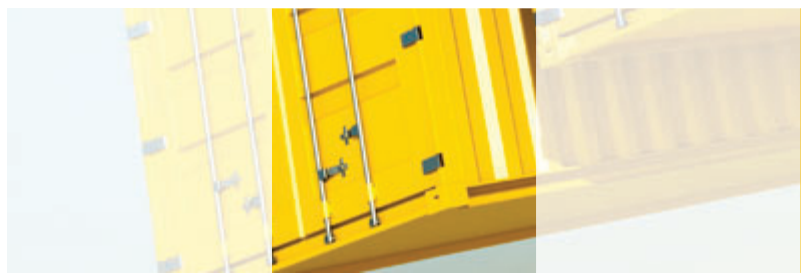
- High anticorrosive performance at low dosage;
- Blistering reduction;
- Multi-metal protection;
- Usable in clear-coatings;
- Gloss preservation.



## THE RANGE

			ASCONIUM-110	ASCONIUM-111	ASCONIUM-112	ASCONIUM-114	ASCONIUM-130	ASCONIUM-140	ASCONIUM-141	ASCONIUM-142DA	ASCONIUM-143	ASCONIUM-144DA	ASCONIUM-BST20	
SOLVENTBORNE	ALKYD	clear	●●●	●	●●●	●	●	●	○	●	●●	●●	○	
		paint	●	●●●	●●●	●●●	●	●●	○	●	●●●	●●	○	
	2K PU 2K ACRYLIC	clear	●	○	●	●●	●	●●	●●	●●	●●●	●	●	●
		paint	○	●●	●	●●	●	●	●●●	●●●	●●●	●	●	●●
	POLYESTER	clear	●●	○	●●●	●●●	●	●●	○	●	●●	●●	●●	○
		paint	○	●	●●●	●●	●●	●●	●	●	●●	●●	●●	●●
2K EPOXY	clear	●	○	●●	●	●●●	●●●	●	●●	●	●	●	○	
	paint	○	●●	●●	●	●●●	●	●●●	●●●	●●	●	●	●	
WATERBORNE	ACRYLIC STYR/ACRY	clear	○	○	●●	●●●	●	●●●	○	●●	●●●	●●	○	
		paint	○	●	●●	●●	●	●●	●	●●●	●●●	●	○	
	ALKYD	clear	○	●	●	●●	●	●	○	●	●●	○	○	
		paint	○	●●	●	●●●	●	●	●	●●●	●●	○	○	
	PUD	clear	○	●	●●	●●●	●	●●●	○	●●●	●	●●	○	
		paint	○	●●	●	●●	●	●●	○	●●●	●	●●	○	
	2K ACRYLIC	clear	○	○	●	●●	●	●●	○	●	●	●	○	
		paint	○	●	●●●	●●	●	●	○	●●●	●●	●	○	
2K EPOXY	clear	○	○	●	●●	●●●	●	●●	●●	●●	●●	●	○	
	paint	○	●	●	●	●●●	●	●●●	●●●	●●	●	○		
Ferrous substrates			●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	
Zn and alloys substrates			●●	●	●●●	●●	●●	●●●	●	●●	●●	●●	●	
Alu and alloys substrates			●	●	●●	●●	●●	●●●	●	●●	●	●●●	●	
Cu and alloys substrates			●●●	○	●●●	●●	●	●●	○	●●	●●●	●●●	○	

●●● Highly recommended | ●● Recommended | ● Can be used | ○ Not used

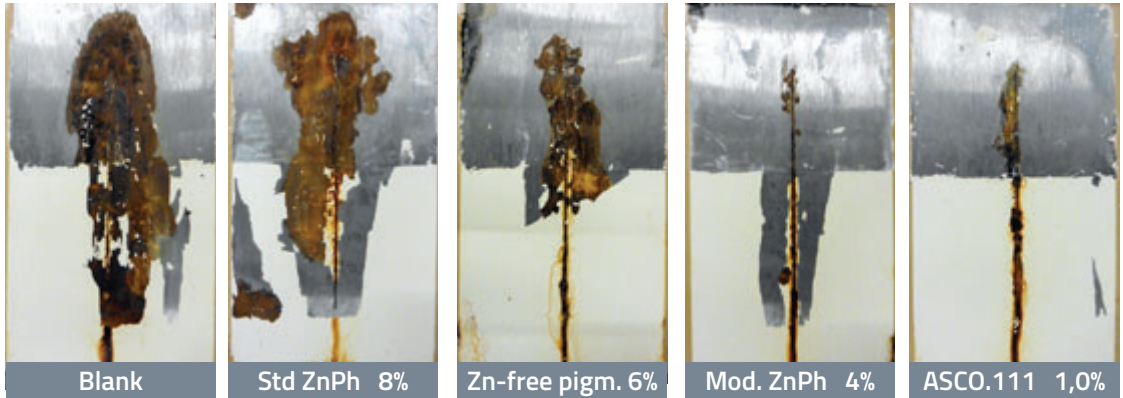


## ■ ANTICORROSION PERFORMANCES

**ASCONIUM®**, used as sole anticorrosion agent into metal coatings, achieve better anticorrosion performance than usual anticorrosion pigments.

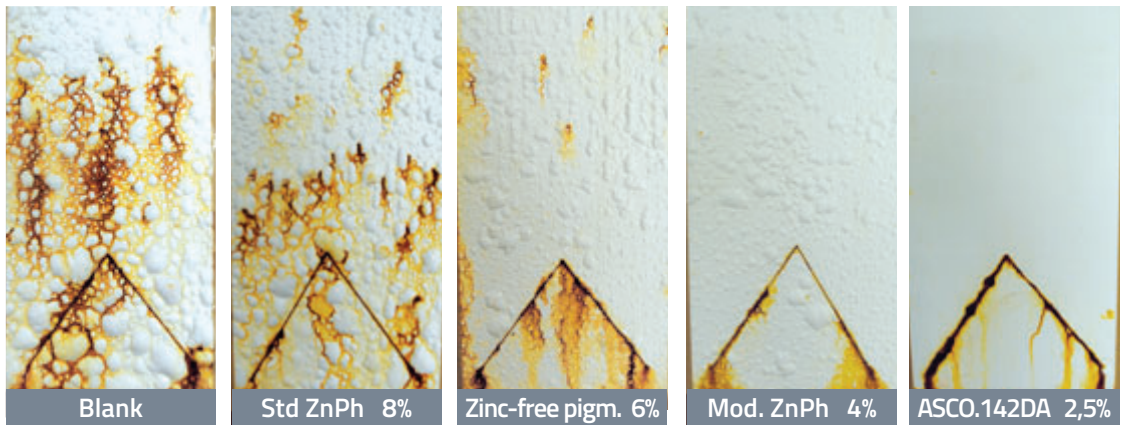
### Solventborne Alkyd primer

Salt Spray ASTM B117 – 500h – DFT 60µm, CRS



### Waterborne Acrylic coating

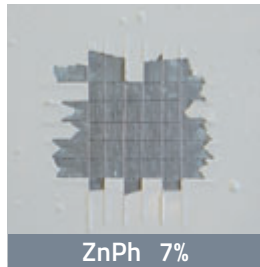
Salt Spray ASTM B117 – 1000h – DFT 60µm, CRS



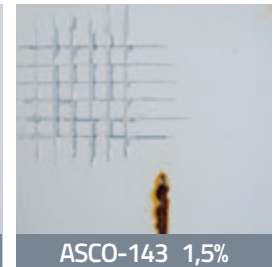
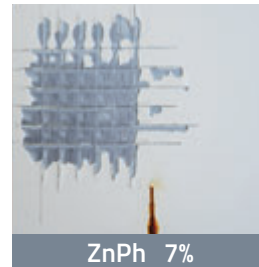
## ADHESION IMPROVEMENT

**ASCONIUM®** provides excellent adhesion properties to the film on metal substrates, even after salt spray or humidity tests.

Solventborne 1K Alkyd-urethane primer + Solventborne Alkyd top-coat  
DFT 125µm, CRS



Adhesion 2409 24h  
after 120h Humidity Test ISO6270

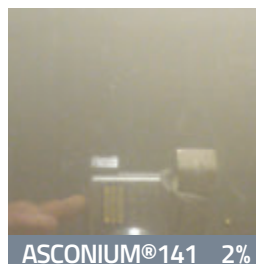
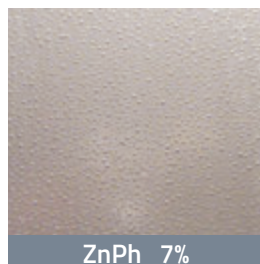


Adhesion 2409 24h  
after 250h Salt Spray Test ISO9227

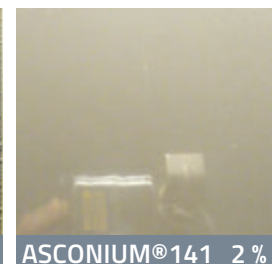
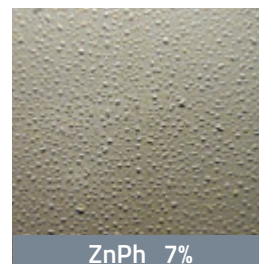
## WATER RESISTANCE IMPROVEMENT

As hydrophobic anticorrosion agents, **ASCONIUM®** provide enhanced water resistance to the coating, when many usual anticorrosion agents, sensitive to hydrolysis, compromise this property.

High Solid Monolayer solventborne 2K PU  
DFT 75µm, CRS



54 days Humidity test 45°C

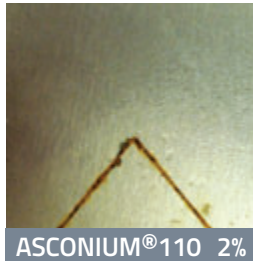
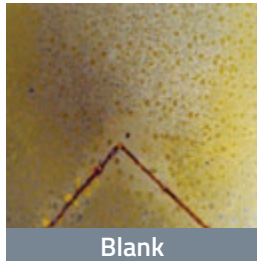


54 days Bac Ford test



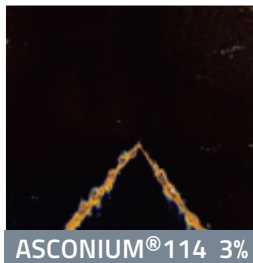
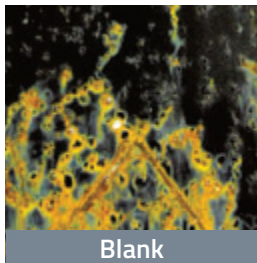
## ■ USABLE IN CLEAR-COATINGS

As clear liquid-form, **ASCONIUM®** can be used into non-pigmented coatings, without compromising the film appearance



### Solventborne Med-oil Alkyd clear-coating

Salt Spray ISO9227 500h,  
DFT 50µm, CRS

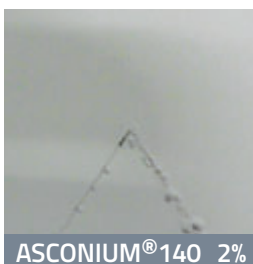
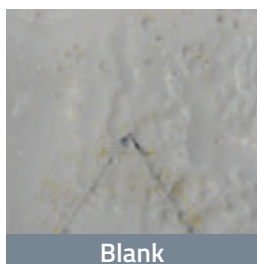


### Waterborne 1K Acrylic clear-coating

Salt Spray ISO9227 250h,  
DFT 25µm, CRS

## ■ MULTI METAL PROTECTION

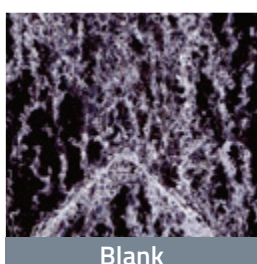
**ASCONIUM®** is not only active on ferrous substrates, but also on aluminium, copper and zinc-based metals, used in specific fields like coil-coatings and aerospace applications.



### Waterborne 2K PU primer

Salt Spray ISO9227 300h,  
DFT 10µm

Aluminium



### Solventborne Polyester coating

Salt Spray ISO9227 1500h,  
DFT 20µm

Galvanized steel



**YOUR KEY PARTNER FOR ANTICORROSION**



8 Rue Jean Servanton - ZAC Scheurer-Kestner  
42 000 Saint-Etienne - FRANCE

Tel: +33 4 77 57 58 46 - Fax: +33 4 77 57 24 82  
Email: [contact@ascotran.com](mailto:contact@ascotran.com)

**[WWW.ASCOTRAN.COM](http://WWW.ASCOTRAN.COM)**