

ANTICORROSION
ADDITIVES

ASCOTRUST®

RUST CONVERTING ADDITIVES



 **ASCOTEC**

YOUR KEY PARTNER FOR ANTICORROSION

ASCOTRUST®

■ A NEW GENERATION OF RUST-CONVERTERS

Regulations on chemicals and VOC are forcing binder manufacturers to develop performing waterborne systems for direct-to-metal applications. Even though a metal coating shows high levels of performance, it can lose its properties once applied on rusted or poorly prepared metal surfaces.

The current techniques to get around this problem focus on rust pre-treatment methods and are not fully satisfactory:

- chemical surface-treatments and mechanical treatments, costly methods requiring the immediate application of a protective coating to avoid any new rust formation;
- acid rust converting coatings, based on tannic acid or its derivatives, requiring efficient and stable acid binders for their preparation;
- solventborne "oils", or clear-coating pre-treatments, with long drying periods and insufficient anticorrosion performances.

How to obtain high-performance results with metal coatings directly applied on rust, or poorly prepared substrates, without using expensive methods or specific binding systems? **ASCOTRUST®** is the answer.

RUST-CONVERTING ADDITIVES

■ A RANGE OF INNOVATIVE, LIQUID-FORM, AND TANNIC ACID-FREE RUST-CONVERTING ADDITIVES FOR WATERBORNE COATINGS

ASCOTRUST® additives provide rust-converting properties to the coating layer and enable direct applications on rust or poorly prepared substrates.

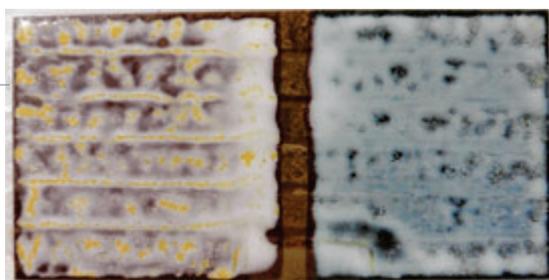
They ensure an efficient rust-blocking effect as soon as the paint is applied and form a passivation layer between the substrate and the coating layer; this helps to maintain the coating's anticorrosion performance, despite adverse substrate conditions.



Waterborne clear-coating just applied on a rusted steel panel

without ASCOTRUST®

The rust is immediately solved into the film layer.



with ASCOTRUST®

The rust is converted and blocked on the metal substrate.

■ ASCOTRUST® KEY BENEFITS

- Ecolabel compliant
- VOC-free
- Easy to incorporate
- Doesn't change coating's color
- Doesn't let acid residues on the substrate
- Compatible with a wide range of binders
- Enhances flash-rust inhibitors performance
- Doesn't contain tannic acid or derivatives

■ THE RANGE



	Specificities
ASCOTRUST®- X1	The most universal. Ideal for iron oxide - based coatings.
ASCOTRUST®- X2	Good compatibility in clear-coatings.
ASCOTRUST®- X3	High synergy with flash-rust inhibitors. Mainly used for primers.
ASCOTRUST®- X4	High water resistance. Ideal for DTM coatings.

■ ASCOTRUST® ENHANCE FILM FLASH-RUST PERFORMANCE

ASCOTRUST® completes the action of the flash-rust inhibitor on very sensitive substrates: sand-blasted steel, cast-iron and soldered joints.



Exemple on soldered joint

Waterborne coating with an flash-rust inhibitor only

Waterborne coating with an flash-rust inhibitor + ASCOTRUST®

■ ASCOTRUST® FOR RUST-CONVERTING PRE-TREATMENTS

A waterborne anticorrosion clear-coating containing ASCOTRUST® can be used as a rust-converting pre-treatment with better performance than tannic acid-based formulations or solventborne alkyd-based oils.



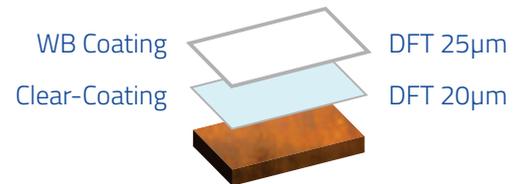
ASCOTRUST
BASED
PRETREAT



TANNIC ACID
BASED PRETREAT



SOLVENTBORNE
ALKYD OIL



SST (250h) on rusted steel panels

■ ASCOTRUST® FOR RUST CONVERTING PAINTS

ASCOTRUST® based waterborne metal paint

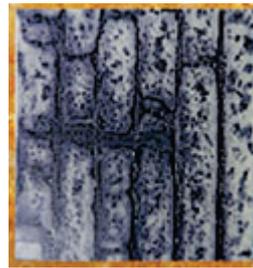
- Prevent from rust "migration" through the waterborne coating, even on freshly rusted substrates.
- Preserve the coating's color.
- Avoid strong de-rusting operations before painting without loss of performance.
- Don't compromise the coating anticorrosion performance on non-rusted substrates.



Paint without
ASCOTRUST®



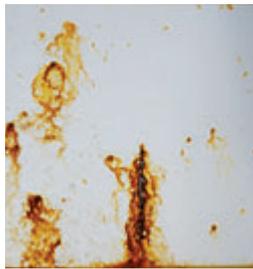
Paint with
ASCOTRUST®



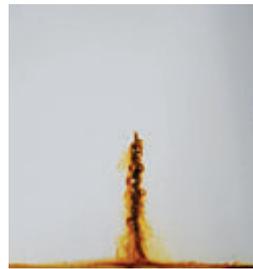
Paint with
tannic acid-based
additive

**WB paint applied on freshly
rusted steel**

with 1 layer (DFT 40 µm)



Metal paint
without
ASCOTRUST®



Metal Paint with
ASCOTRUST®

**SST (300h) on rusted
steel panels**

with 1 layer of metal paint
(DFT 100 µm)



Metal paint
without
ASCOTRUST®



Metal Paint with
ASCOTRUST®

**SST (300h) on rusted
steel panels**

with 1 layer of metal paint
(DFT 80 µm)



YOUR KEY PARTNER FOR ANTICORROSION



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