SNCZ

Introducing a novel

Anti
Corrosive
Ecofriendly

Technology

SNCZ

launches

NOVINOX® ACE 20

A new high performance EcoFriendly
AntiCorrosive Inhibitor

- In the world of Anticorrosive inhibitors, SNCZ is setting up a new landmark with the patented ACE technology:

NOVINOX® ACE 20

- A non Ecotoxic modified Zinc phosphate.

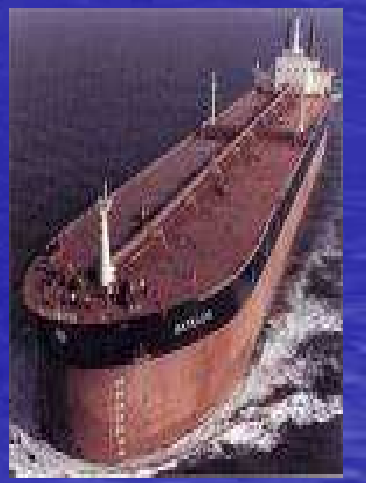
Typical Properties

	Novinox® ACE 20	Zinc phosphate PZ 20
Specific gravity	3.2	3.3
Hegman Fineness	5.5	5.5
Oil absortion	27	27
pH	7.0	6.5
Sieve residue (on 45µm) %	0.05	0.05
D50 µm	5.0	4.5









Acute Ecotoxycity tests

Acute Ecotoxicity tests have been performed on :

- Daphnia (shellfish)
  - Daphnia magna
- Algae
  - Pseudokirchneriella subcapitata
- Fish
  - Onchorhynchus Mykiss (Rainbow trout)

Acute Ecotoxycity tests

- Ecotoxicity tests on Daphnia

Product	Immobilization ratio (/20)
Novinox® ACE 20	0
Standard Zinc Phosphate	0

If immobilization ratio is less than 10, then material is non Ecotoxic for Daphnia

Acute Ecotoxycity tests

- Ecotoxicity tests on Algae

Product	Growth rate inhibition
Novinox® ACE 20	11.67 %
Standard Zinc Phosphate	16.25 %

If growth rate inhibition is less than 50 %, then material is non Ecotoxic on Algae

Acute Ecotoxycity tests

- Ecotoxicity tests on Fish:

Product	Mortality of Fish (/8)
Novinox® ACE 20	0
Standard Zinc Phosphate	5

If mortality is less than 4, then material is non Ecotoxic on fish

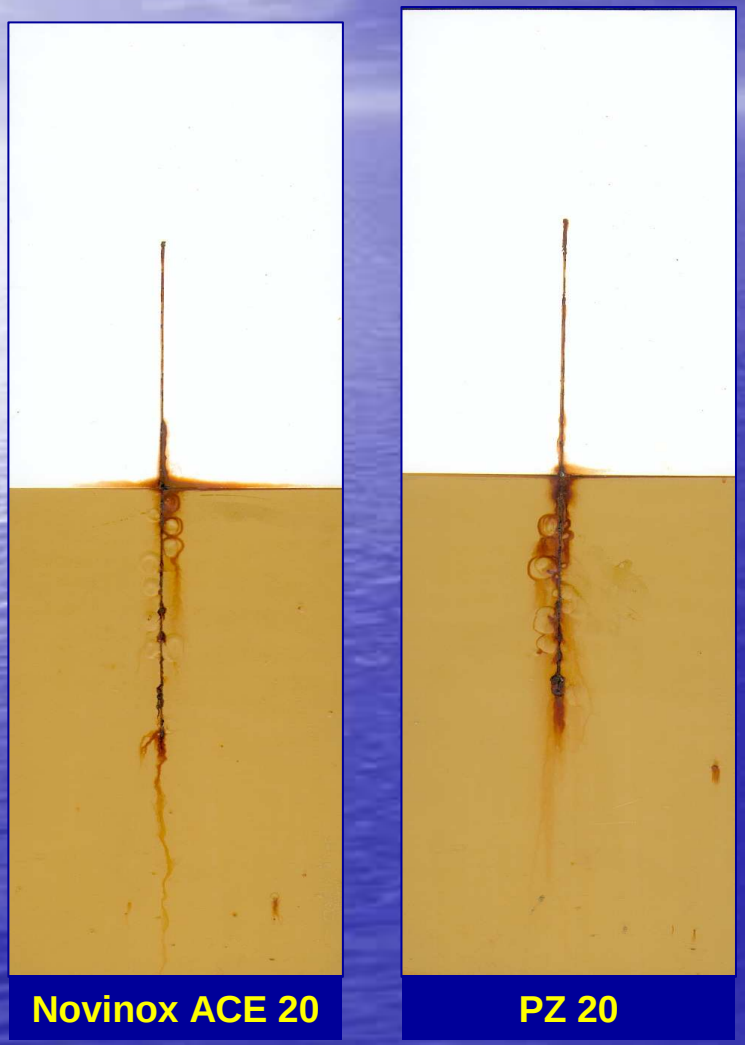
NOVINOX® ACE 20

	Novinox® ACE 20	**Standard Zinc Phosphate**
Classification	No labelling	R 50/53 
Transportation	No labelling	 
Storage	No limitation	Subject to restrictions (e.g. SEVESO 2 if >200 tons in Europe)

NOVINOX® ACE 20

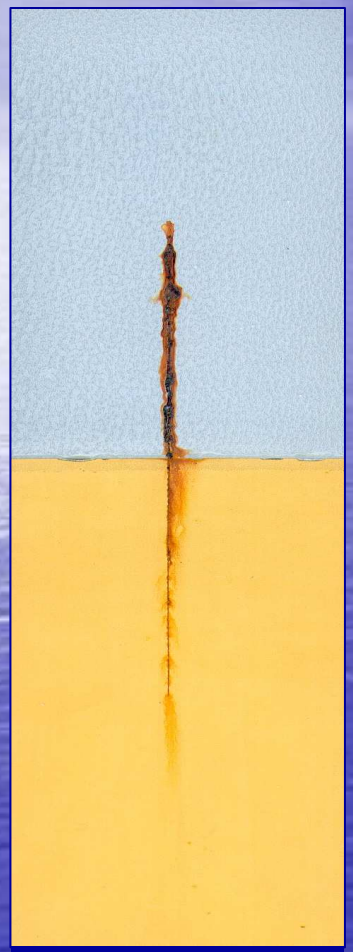
- Technical performance of Novinox® ACE 20 has been compared with standard Zinc Phosphate in the following systems :
  - Epoxy amide primer, Solvent based
  - Epoxy amine primer, Solvent based
  - Styrene acrylic primer, Water based
  - DIY Styrene acrylic One Coat, Water based
  - Alkyd Emulsion primer, Water based

EPOXY AMIDE SB PRIMER WITH NOVINOX® ACE 20

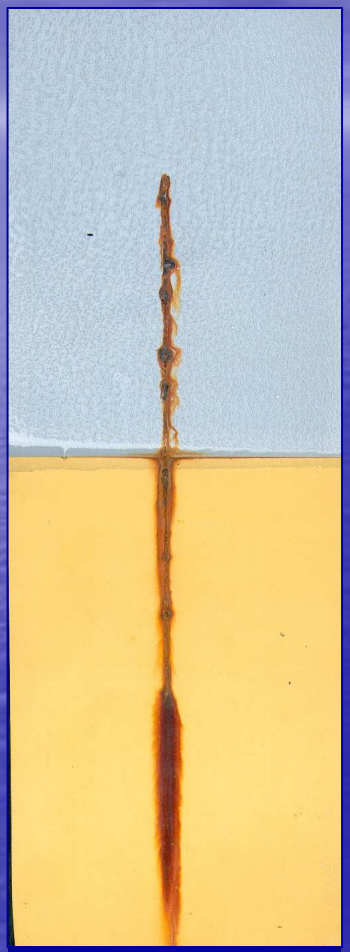


- Application over cold rolled steel using a spray gun
- Epoxy amide primer 50 µm
  + PU topcoat 100 µm
- Salt spray exposure 600 h
- PVC: 34.73%
- ESV: 44.84 %
- Pigment/Binder vol : 0.53
- Anticorrosive pigment concentration: 8 %

EPOXY AMINE SB PRIMER WITH NOVINOX® ACE 20



Novinox ACE 20



PZ 20

- Application over cold rolled steel using a spray gun
- Epoxy amine primer 50 µm
  + topcoat PU 100 µm
- Salt spray exposure 600 h
- PVC: 39.51%
- ESV: 39.56 %
- Pigment/Binder vol : 0.65
- Anticorrosive pigment concentration: 8%

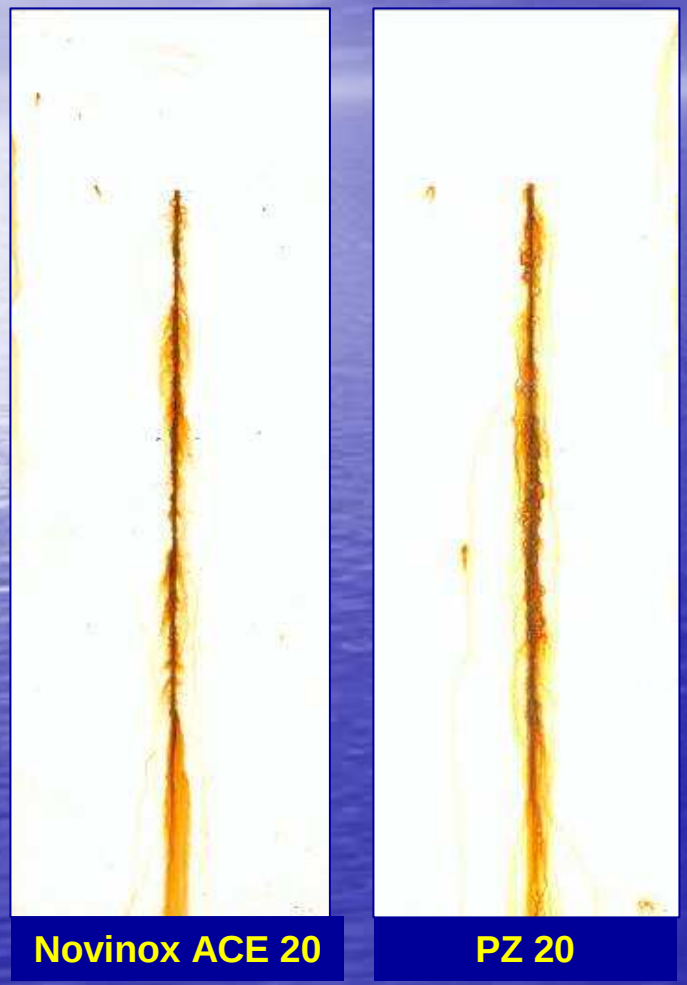
WB STYRENE ACRYLIC PRIMER WITH NOVINOX® ACE 20

Novinox ACE 20

PZ 20

- Application over cold rolled steel using a spray gun
- Styrene acrylic primer 60 µm
  + Styrene acrylic topcoat 70 µm
- Salt spray exposure 300 h
- VOC < 100g/L
- Anticorrosive pigment concentration: 10.5%

WB DIY STYRENE ACRYLIC ONE COAT WITH NOVINOX® ACE 20



- Application over cold rolled steel using a spray gun
- Styrene acrylic primer 60 µm
- Salt spray exposure 300 h
- VOC < 100g/L
- Anticorrosive pigment concentration: 10.5%

WB ALKYD EMULSION PRIMER WITH NOVINOX® ACE 20

Novinox ACE 20

PZ 20

- Application over cold rolled steel using a spray gun
- Alkyd emulsion primer 65 µm
  + alkyd emulsion topcoat 30 µm
- Salt spray exposure 250 h
- VOC < 100g/L
- Anticorrosive pigment concentration: 10.0%

NOVINOX ACE® 20

- A new high performance EcoFriendly Anticorrosive Inhibitor
- Technical Performance similar to PZ 20
- Contains no free ZnO
- Not classified as water pollutant or dangerous for the environment
- Not classified for transportation or storage