

TECHNICAL DATA

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THIS CHEMICAL IS
FORMULATED FOR

WARNING INDUSTRIAL USE ONLY

Contact with skin or clothing or other improper handling or use of this product may result in bodily harm or other damage. Before using or mixing the contents with other substances, all labels applied to container, the applicable Technical Data Sheet and Material Safety Data Sheet should be read and specific instructions and precautions followed to assure correct use and personal safety.

ECOPHOR

INTRODUCTION

ECOPHOR is a one-stage, combination iron phosphate / degreaser. It produces no effluent, and gives better corrosion protection than traditional water based iron phosphates.

Products treated with ECOPHOR are covered with a thin amorphous layer of organic modified iron phosphate and they are coated by a polymeric film which will not only give a better paint finish but will also give temporary protection against corrosion before painting.

GENERAL PROPERTIES

Description	Degreasing & Phosphating Solution
Nature of the phosphating solution.	Organic Polyphosphate dissolved in organic solvents.
Composition of the phosphating solution.	ECOPHOR A/447 ready to use solution SOLVENT A/447 solvent mixture
Application Method	Spraying/Dipping.
Substrates which can be treated.	Mild steel, cast iron, aluminium, zinc galvanised steel
Conversion Coating	Iron phosphates coated by a polymeric film.
Coating thickness	1-3 microns
Temporary protection on unpainted articles	Gives rust protection for Several months if stored inside

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Corrosion protection in combination with topcoats.

Between iron and zinc process

200-250 Hrs. Salt Spray resistance on steel under powdercoat.

400-500 Hrs. Salt Spray resistance on zinc under powdercoat.

900-1000 Hrs. Salt Spray resistance on aluminium under powdercoat.

GENERAL PROPERTIES CONT.

Compatible Paints

Varnishes Lacquers, Paints (Solvent & water based/powders)

PROCESSING DATA

Spraying / Dipping Time
Temperature

60-90 Seconds

Ambient

Blowing Time
Temperature

2-4 minutes

Ambient

Drying Time
Temperature

4-8 minutes

90-140°C

Type of Installation

Static or Conveyorised

TECHNICAL DATA

Physical State

Liquid

Aspect of the solution

Clear yellowish liquid

Odour

Perceptible

Specific Gravity

0.80 at 20°C

pH of the solution

2.5-4.0

Evapor. Rate (nBuAc=100)

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Flash Pt (Pensky Marten)

65°C

Coverage

1 Litre treats 40sqm approx.

Thermal stability

220°C

ENVIRONMENTAL PROTECTION & SAFETY PRECAUTIONS.

** Free of HHC & CFC

** Free of Aromatics

** There is no effluent to dispose of

** No emission of dangerous compounds into the atmosphere.

** Extremely safe for the workplace

** Very low order of acute and subchronic toxicity

** Tetralogical and ecological testing demonstrates minimum risk to human health and the environment

** No hazardous labelling is needed, according to the EEC 88-379 prescription.

** Extremely low ecotoxicity for fish and water life.