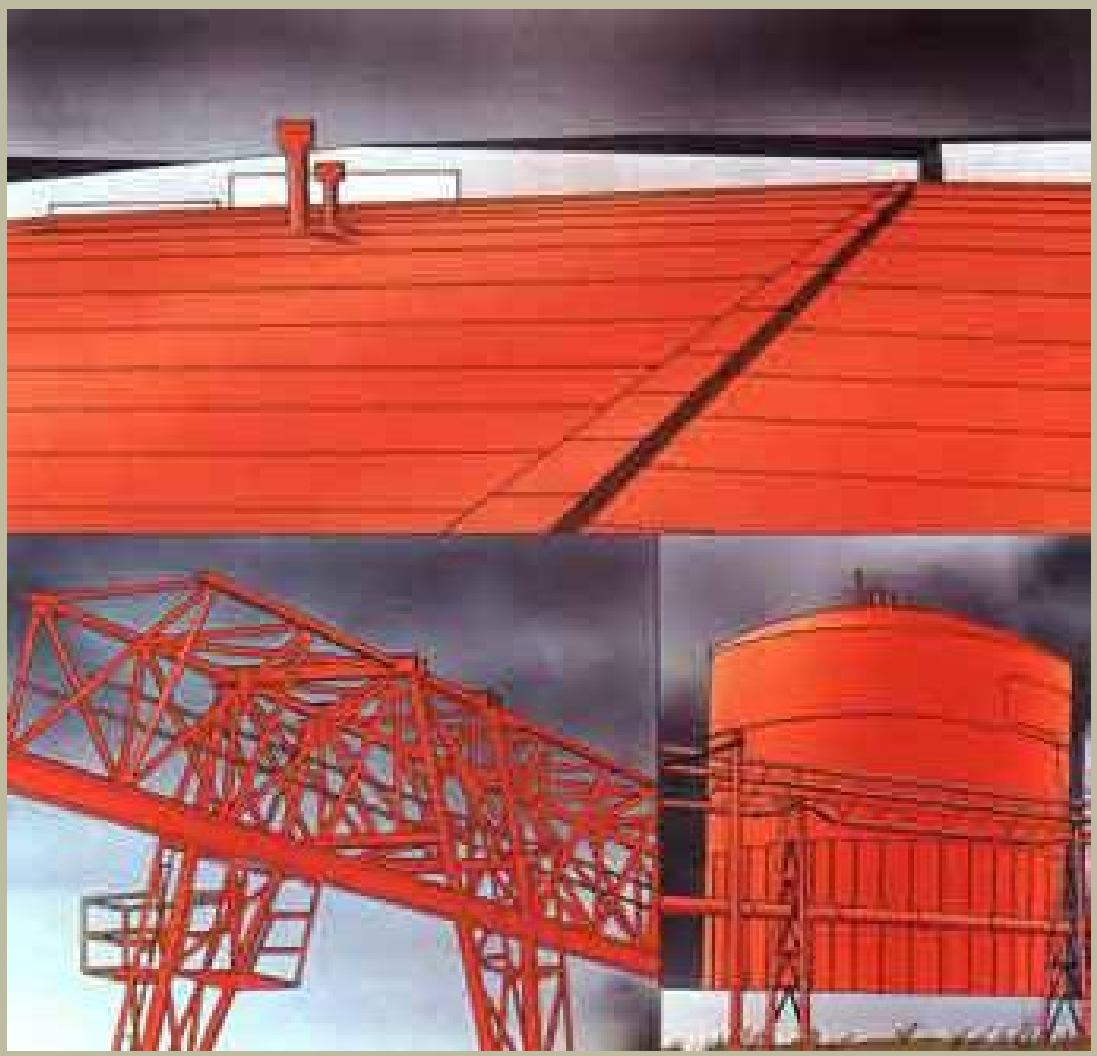
NOXYDE



SINGLE COAT CORROSION AND WATERPROOF PROTECTION

Highly resistant to cracking, pollution and (abrasion)

NOXYDE

NOXYDE is an outstanding rust preventative coating with exceptional adhesion to virtually any substrate.
It is supplied ready to use and can be applied by brush, roller or airless spray.
NOXYDE is a water borne coating that dries to leave a extremely tough, flexible (200% elasticity) rust preventative coating that is impermeable to water, and highly resistant to salt spray and polluting atmospheres.
With powerful rust inhibiting pigments but no lead and no organic solvents there are no toxic or flammable vapours.
NOXYDE can be used for protection of virtually all metalwork and is especially suitable for the protection of external cladding, roofs, steelwork, tank exteriors etc.

MORE EFFECTIVE THAN CONVENTIONAL RUST PREVENTATIVE PAINTS

Can be applied to ferrous metal, galvanised steel, aluminium, zinc etc. Is available in a range of colours.

LONG LASTING CORROSION PROTECTION

NOXYDE: TESTS OF QUALITY AND RELIABILITY

Tested and Approved

Like its companion products NOXYDE is well know throughout Europe and the USA, where it satisfies the strictest of standards relating to corrosion prevention.

Adhesion

NOXYDE applied to Corten steel in accordance with French Standard T30.062 showed no separation after artificial ageing.

Pliability and Elasticity

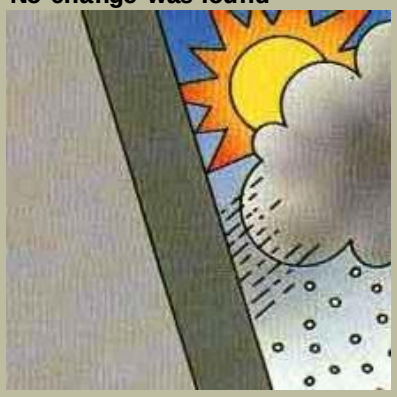
NOXYDE applied at a dry film thickness of 1000µ can withstand elongation of 200% without cracking or tearing.

Artificial Weathering

Accelerated ageing tests including misting, infra-red exposure, ultra-violet exposure and sulphur dioxide exposure, followed by 200 hours of salt spray testing showed no rust spotting under the coating.

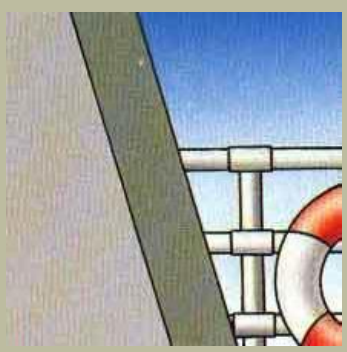
Tensile Strength

First, samples are subject to artificial weathering (including rain at 20°C, frost at 20°C, hot and humid atmospherics and UV radiation at 60°C) and then tensile strength tests were carried out according to ISO R527.
No change was found



Water permeability

Tests carried out in accordance with P.10-5-212 of the GPEM/PV, show that NOXYDE is impermeable to water.



Resistance to salt fog.

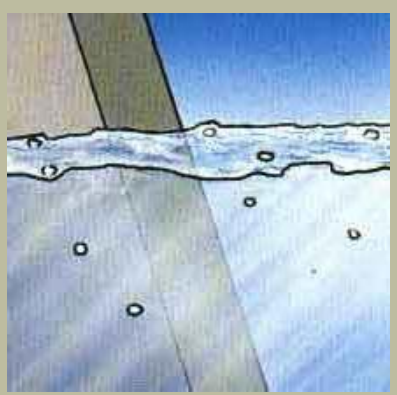
After accelerated weathering, the coating is subject to salt fog tests. No trace of corrosion or coating separation is found.

Resistance to SO_2

Sulphur Dioxide tests carried out in accordance with T.30-055 with high humidity and SO_2 show good resistance.

Immersion Resistance

NOXYDE immersed in salt water at 40°C (BS3900 vF4: 1968) with incisions made in the coating to check under-rusting with paint film damage. No corrosion is found.



NOXYDE

NOXYDE IN PRACTICE

Application

Degrease and derust the surface as appropriate. Apply NOXYDE under fast drying conditions by brush, roller or spray. Ideally apply NOXYDE in 2 coats, the first coat being thinned 25% and applied very thinly as an adhesion coat before applying a full coat to the required thickness. Although not essential, NOXYDE can be overcoated, where necessary for aesthetic reasons with products such as Pegacryl Satin or coating PRT.

Technical Data

NOXYDE is based on highly elastic polymers dispersed in water with powerful corrosion inhibitors.
NOXYDE is supplied in 1, 5 & 20 Kg units in a range of colours.

Density:	1.3
VS:(w/w)	68% +/- 2%
Elasticity:	200%

Apply by brush, roller or airless spray between 8°C and 55°C with RH <80%.
Store away from frost.
Clean tools with water.

Also available in the same family of products:

MURFILL: Waterproof and Water Vapour Permeable Masonry Coating - 400 % elastic - excellent resistance against ageing in normal and industrial environment - anti-carbonation coating - can be combined with fleece for additional mechanical reinforcement and for bridging of (active) cracks.

DAKFILL: 100 % Waterproof Roof Coating - elastic - vapour permeable - excellent resistance against extreme variations in temperature, atmospheric pollution and UV-rays.
It builds an abrasion resistant rubber like coat without joints or seams which is hardly flammable and self-extinguishing.

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SPECIALIST PAINTS FOR INDUSTRY

NOXYDE

DESCRIPTION
A single component, rust preventative water-based elastomeric acrylic coating.

APPLICATION
1. On iron, steel, special alloys, galvanised and metallised iron and steel, aluminium, copper, zinc, lead... as rust prevention or waterproofing.
2. Diluted with 25 % water as an adhesion primer coat on slightly or non porous substrates such as glass, smooth bricks and concrete, ceramics, tiles ...

FEATURES
Waterproof - elastic (200 %) - impact resisting - free from lead and solvents. Excellent protection against rust, weather influences and many chemicals.

TECHNICAL DATA

Binder:	plasticized styrene acrylic resins
Finish:	satin gloss (Gloss 60% : ± 20)
Colour (s):	English red, grey-green, beige-grey, white, black, brown, blue
Solids content (ASTM, D1644/a) :	by volume : 55 ± 3 % by weight : 62 ± 3 %
Density (ASTM, D1475, 20°C) :	1.2 – 1.3 g/cm³
VOC-content:	max. 5 g/l (Volatile Organic Compounds)
Consumption:	* Brush/roller: 200 - 300 g/m²/coat * Airless: 300 - 500 g/m²/coat

Total consumption for optimal rust preventive protection: 800 g/m² = 350 µm dry film thickness.

Thickness	wet film: 320 micron (cons.: 400 g/m²) dry film : 175 micron (cons.: 400 g/m²)
Drying times	* dust free: 1,5 hour (for t° 20°C) * rain resistant : 3 hours (for R.H. 60%) * recoatable : 24 hours full cure : ± 2 weeks
Flashpoint (DIN53213):	none
Miscellaneous items:	Recoatable after 24 hours with itself, Coating PRT, Pegacryl Satin, high gloss alkyd enamels, high and satin gloss acrylic dispersion paints.

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INSTRUCTIONS FOR USE
Ambient conditions: temperature between 8 and 55°C / air humidity max. 80 % R.H.
Dilution: water
Cleaning tools: water
Airless: Nozzle: 18 - 23 Pressure : 220 bars
Conventional spray-gun: no
Brush: Undiluted as a rust preventive paint. Diluted with approximately 25 % water as an adhesion primer (consumption about 100 g/m²).
Roller: Undiluted as a rust preventive paint. Diluted with approximately 25 % water as an adhesion primer (consumption about 100 g/m²).
Particulars: When used for interior works, provide for adequate ventilation. During work stoppage, fully immerse brush or nozzle in water.

PREPARATION OF THE SUBSTRATE
The substrate has to be dust free and made rust free by means of sandblasting (Sa2, St2) or high pressure water jetting (min. 600 bars). After jetting, the substrate has to be dust free. On new galvanised surfaces, new zinc, aluminium, stainless steel, apply first a coat of Galvaprim or Pegalink

ADDITIONAL INFORMATION
Transport codes: ADR-classification: not ADR / UN-code: none
Packing: 1 - 5 - 20 kg
Storage stability: At least 4 years, provided the original tin is properly sealed and kept in a cool, dry and frost-free place.
AFNOR Classification: Group I, class 7b2

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TEST	METHOD	RESULT
Solids content	ASTM D1644/a	+- 66 % by weight +- 57 % by volume
		34 % plastified styrene-acrylic binders 11 % hiding pigments 20 % anticorrosive pigments 35 % water 1 % additives
Scratch resistance	ISO 1518	Uniform scratch at 550-600 g weight load of Clement graver slider
Flash point	DIN 53213	No flash point (not flammable)
Abrasion resistance	ASTM D4060 CS17 500g 1000 cycles	14.85 g/m²
Impact resistance	DIN 53154	+ 80000 steel rods before exposure D 75000 steel rods after exposure 7d at 70°C,3d UV
Indentation depth	EN ISO 1520	10.6 mm before exposure 9.6 mm after exposure 7d at 70°C, 3d UV 11.5 mm
Hardness	ISO 1522	Relative Persoz-hardness as compared to the non-coated glass plate = 0.113 Clemen hardness on a 350µ DFT after 4 weeks drying (24°C, 45% R.H.) = 6N
Cylindrical bending	EN ISO 1519	< 3 mm on new Sendzimir galvanized steel on aged Sendzimir galvanized steel
Water absorption		25 g/m² water take-up (or +- 5% by weight) after 2 weeks value remaining fairly constant after 6 weeks DFT = 350µ
Cross-cut adhesion	ISO 2409 (2mm spacer)	On sandblasted steel : Gt0 after 1000h saltfog 1000h saltfog + 1000h QUV On new and aged galvanized steel: Gt0 before exposure Gt0 after 10 freeze-thaw cycles (1h RT/ 2h –20°C/1h water/1h RT/ 2h –20°C/1h water/16h –20°C)
Pull-off strength	ISO 2409-72 Substrate: sandblasted steel DFT = 350µ, (10KN weight, speed: 1mm/m, two pack epoxy glue drying time before exposure: 14 days) EN 24624 Substrate: sandblasted steel DFT = 150µ	Before exposure: > 3.7 MPa After 1000h salt fog: 4.0 MPa After 1000h QUV: .5.5 Mpa After 1000h QUV + 1000h salt fog: > 4.4 MPa Before exposure: 3 N/mm² After exposure 7d at 70°C, 3d UV: 4.5 N/mm²

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Elasticity	**ISO 527 (1KN weight, 25 mm width = 6.75 mm², speed : 50 mm/m drying time before exposure: 14d)**	**Before exposure: 307 % After 1000h QUV: 251 %**
Tensile strength	**ISO 527 (1KN weight, 25 mm width = 6.75 mm², speed : 50 mm/m drying time before exposure : 2w) (7 mm width = 5.6mm², speed : 100 mm/m drying time before exposure : 6w (36 mm width = 36 mm², speed: 100mm/m drying time before exposure : 1d at 23°C + 1d at 50°C**	**Before exposure: 2.3. N/mm² After 1000h QUV: 4.3 N/mm² Before exposure: 2.2 N/mm² Before exposure: 3.0 N/mm² After 500h QUV: 3.9 N/mm² After 1000h QUV: 4.2 N/mm²**
Water vapour permeability	**ASTM E96 DIN 52615**	**6.5 g/m²/day 11.3 g/m²/day μ = 5236 / Sd = 1.83 m**
Salt fog resistance	**ASTM B117 1000h (DFT = 350μ) 1000h QUV + 1000h saltfog (DFT = 350μ) ISO 7253-84 (DFT = 350μ) 56 daily cycles of 6h 3% NaCl + 18h drying**	**Scribed panel : blistering size 4 medium dense at X-mark ; after stripping : corrosion creep up to 1mm from X-mark ; no corrosion in the field Unscribed panel: no visible defects Scribed panel: three blisters size 2 at X-mark ; after stripping ,corrosion at blisters ; no corrosion creep or corrosion in the field Unscribed panel: no visible defects Scribed panel: slight undercoat corrosion up to 5mm from X-mark Unscribed panel: no changes in colour, gloss or appearance**
Temperature resistance		**No visual deterioration on a 180μ DFT Noxyde film after 3d exposure at 100°C**

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S02-resistance	**ISO-6989-85 method B** **56 daily cycles of:** **6h 0.5% SO2 at 40°C and 95% R.H + 18h drying**	**Resists 7d of H2SO3-vapours** **1: 10 diluted without loss of adhesion (Gt0) and without visual change** **no corrosion or destructive changes on both scratched and unscratched specimens** **original gloss and colour are preserved throughout the test**
Humidity cabinet	**DIN 50017** **20 daily cycles of:** **8h at 40°C and 100% R.H + 16h at 25°C and 100% R.H**	**Unaffected / Gt0 + no rust creep**

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