

## DESCRIPTION OF APPLICATION

**X<sup>2</sup>Supercoating AllMetalProtect** forms a dry film, providing Ultra-Long term protection against corrosion in most environments, exceeding 2000 hours in salt spray testing (ASTM B-117). It is designed for virtually all kind of used and new machinery, vehicles, ships, drilling rigs and other industrial installations. The film may be top-coated with most high performance finishes when color and gloss retention is required.

## GENERAL INFORMATION

**X<sup>2</sup> Supercoating AllMetalProtect** is an extremely effective corrosion inhibiting coating. Compared to other, conventional products, many advantages can be put forward. **X<sup>2</sup> Supercoating AllMetalProtect** does not contain any Lead, Isocyanate or Cr6. Thanks to its Polar Bonding Technology it provides maximum adhesion to steel and extraordinary dielectric abilities isolating the anode and the cathode. It does not require sandblasting before the treatment and is easy to apply. This means a great cost benefit!

## CONDITIONS

Equipment may be used in all weather conditions, except under the waterline of ships and other immersed applications.

## PREPARATONS

**New Steel:** Remove mill scale before applying **X<sup>2</sup>**. Any mill scale left intact will become the weak link in the system, causing failure when scale loses adhesion to the metal surface.

**Rusty Steel:** Remove any dirt, oil, loose rust and rust scales. We strongly recommend a pretreatment with **X<sup>2</sup> SurfacePreporator** to help remove existing rust easily.

**Partly Rusted or Partly Painted Steel:** When repairing a painted surface that has deteriorated, total removal of old paint is preferred. If that is not possible, remove all loose paint with hand tools, water or light sand blasting. Pay particular attention to remaining paint edges. For best results, use a rotary sander to feather out exposed steel to adhering paint edges. Always apply a sample of **X<sup>2</sup>Supercoating AllMetalProtect** to old paint to check for lifting or wrinkling. Do not apply if this occurs.

**Galvanized Steel:** For aged, rough galvanized steel, **X<sup>2</sup> AllMetalProtect** will bond with the addition of either one good teaspoon of dry Portland cement per 5 liter **X<sup>2</sup>AllMetalProtect** or a small teaspoon of high-calcium hydrated lime per 5 liter **X<sup>2</sup>AllMetalProtect**.

## THINNING

Applications with airless spray equipment, brush or roller do not require thinning, above 15°C. If using an air spray gun, a reduction of 15 to 20% is typical. Recommended thinners are Xylene, Acetone, and Oxsol 100. Do not use Mineral Spirits or VMP Naphtha.

## APPLICATION

Mix well before using. Apply with brush, roll or spray. **X<sup>2</sup>AllMetalProtect** is a high-solids product with 54% solids by volume. This means 50 um of wet film will yield 25 um of dry film after solvent evaporation. If thinned before applying, additional wet film thickness

must be applied. For best results, apply 2 coats at 75 to 100 um, using a crisscross pattern from one coat to the next to help eliminate pinholes or thin spots. Apply the second coat in 30 minutes to 4 hours, or whenever the first coat is set to touch. The paint is set to touch when paint will not transfer to finger by light touch. Dry time will vary with film thickness, temperature and humidity. **IF GLOSS AND LONG-TERM COLOUR ARE IMPORTANT, WE RECOMMEND OUR *X<sup>2</sup> SurfaceProtect* or *X Topcoating* !!!** It may be applied when paint is set to touch or tack free. For longer periods, apply a small sample over the *X<sup>2</sup>AllMetalProtect* finish to check for wrinkling. Any wrinkling will then require a longer drying period before application of *X<sup>2</sup> SurfaceProtect*.

#### **PROCESSING TEMPERATURE**

+15° C to +35° C. Under + 15°C a thinner will reduce the processing temperature.

#### **PERMANENT PROCESSING TEMPERATURE**

-25° C up to +120° C (Heat resistance varies with colour)

#### **TIME OF PROTECTION**

8-12 years when *X<sup>2</sup>AllMetalProtect* is properly applied. 10-15 years when top-coated with high performance finishes. These include 2K waterborne Urethanes, Acrylics and FluroPolymer finishes. Silicone Alkyd Enamels are also excellent and economical.

#### **REMOVAL**

Under normal conditions *X<sup>2</sup>AllMetalProtect* does not need to be removed. Should that however become necessary, using sandpaper or sandblasting are adequate methods.

#### **OTHER**

Please follow the instructions for use, specified by the manufacturer.

Please pay attention to our safety data sheets and our product data sheets.

#### **Safety**

Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

#### **Ventilation**

When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapour concentration from reaching the lower explosion limit for the solvents used. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel.

#### **Caution**

This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

