

X²SurfaceProtect

Selection & Specification Data

Generic Type

X² SurfaceProtect is a high solids water white acrylic blend lacquer for use as a color stabilizer for *paints*. The product has been specifically formulated for optimum ultraviolet screening and superior gloss retention with exceptional film clarity. Cured films have excellent resistance to mineral acids and alkaline materials. Testing experience has shown that 1.5 mils of X² SurfaceProtect over regular paints exhibit gloss and color retention far superior to all air-dry enamels. Exceptionally quick dry rates allow multicoat applications with as little as 15 minutes between coats. The finish has excellent flexibility and surface mar resistance.

Description

A real Supercoating with an outstanding performance. **PRODUCT USES:** Specifically designed as color stabilizing gloss surface coating, when a gloss finish is required. Secondary uses may include resurfacing and brightening of properly de-chalked but otherwise sound aged finishes. A light sanding or buffing may be required for proper adhesion providing the surface is lift resistant to X² SurfaceProtect. Other uses may include oxidation protection for nonferrous metals i. g. brass, bronze, aluminum, copper and chrome.

Features

- Sticks to all none ferrous metals
- Minimal surface preparation
- Easy to recoat
- Excellent to be used over old paint
- Max.800 h Corrosion Resistance
- Excellent thermal shock resistance
- Easy to be topcoated
- Excellent UV Protection

Color: crystal clear

Finish clear

Primers Self-priming

Corrosion Protection:

800h at 70 microns

Dry Film Thickness

1 coat system: 40- 80 microns

2 coat system: 80-160 microns

Do not exceed 100 microns per coat

Solids Content By Volume: 70% ± 2%

Theoretical Coverage Rate

10qm/Liter at 50 microns

Allow for loss in mixing and application

VOC Values

VOC

Dry Temp. Resistance

Continuous: 150°C

Non-Continuous: 180°C

Substrates & Surface Preparation

General

Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Contaminated grid shall not be used. The blasting media used shall be a natural abrasive, or steel grit or slag grit similar to or equal to Black Beauty. Use sharp anchor pattern, no evidence of polished surface allowed. Remove all traces of grit. Avoid contamination of the surface by fingerprints or dirt on workers clothes.

Surface temperature shall be min. 3°C above dew point. Surface shall be coated same day as prepared

Steel

Non Immersion: SA 1,0

Surface Profile 20-70 micron

Stainless Steel

Non Immersion: SA 1,0
Surface Profile 20-70 micron

Aluminium

Surface Profile 20-70 micron

Concrete

Concrete must be below 5% humidity!
Prepare surfaces by sandblasting. Surface
Cleaning of Concrete required.

Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

General Guidelines:

Spray Application (General)

Recommended for application by single or plural component airless spray. This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray

HVLP

Airless Spray

Pump Ratio: 1:68 (min.)*
GPM Output: 3.0 (min.)
Material Hose: ¾" I.D. (min.)
Tip Size: .021"-.026"
Output: 180 - 200 bar
Filter Size: 60 mesh

*Teflon packings are recommended and available from the pump manufacturer.

Contact Scandex Technical Service for plural component equipment recommendations.

Brush & Roller (General)

Not recommended for tank lining applications except when striping welds.
Brush For touch up and limited areas only.
Roller not recommended

Mixing & Thinning

Mixing

Stir pot for min. 2 minutes

Pot Life

30 minutes at 75°F (24°C). Pot life ends when coating loses body and begins to sag. Pot life times will be less at higher temperatures.

Cleanup & Safety

Cleanup

Use Scandex Thinner 2. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

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 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

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.

Application Conditions

Condition	Material	Surface	Ambient
Min.	7°C	5°C	5°C
Max.	35°C	50°C	35°C

This product simply requires the substrate temperature to be 3° above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions. To reduce outgassing when applying to concrete substrates, do not apply in direct sunlight or when surface temperatures are increasing. Best results are obtained when ambient and surface temperatures are decreasing or constant.

Curing Schedule

Curing will normally take place within 4 h at 21°C . Dry to touch 10 h, Recoat time min. 4 h max. 28 h.

These times are based on a 70 micron dry film thickness. Higher film thicknesses, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure. Condensation on the surface or humidity above 25% during

application and curing will result in a surface haze or blush. Any haze or blush must be removed by water washing before recoating. During high humidity conditions, it is recommended that the application be done while temperatures are increasing. If the maximum recoat time is exceeded, the surface must be washed with detergent and water, then abraded by sweep blasting prior to the application of additional coats. For force curing, contact Scandex Technical Service for specific requirements.

Packaging, Handling & Storage

Shipping Weight (Approximate)

5Liter Container

Storage (General)

Store Indoors.

Storage Temperature & Humidity

4°- 30°C)

0-90% Relative Humidity

Shelf Life

24 months if stored at 24C°