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## PROGUARD AL PRIMER FD

A fast drying alkyd based anticorrosive primer with excellent surface adhesion on steel.

### DESCRIPTION

- PROGUARD AL PRIMER FD is modified one component quick drying high build multipurpose alkyd based anticorrosive primer, containing high quality zinc phosphate anticorrosive pigments designed as a system primer for various paint systems.
- PROGUARD AL PRIMER FD can also be used as finish paint for structural steel of food and chemical processing plants and anti-chemicals flooring
- PROGUARD AL PRIMER FD shows excellent adhesion to steel and forms a hard, abrasion resistant coating.

### COLORS, GLOSS AND APPEARANCE

- PROGUARD AL PRIMER FD is a solvent base one component brushable liquid with flat film
- PROGUARD AL PRIMER FD is available in different colors (white, grey and other colors)

### PROPERTIES & BASIC DATA AT 23°C

Color	GREY
Specific Gravity	1.45± 0.03
Gloss	mat
Volume Solids	44 ± 2 %
Flash Point	36° C
Touch Dry	30 min
Shelf Life	24 months
Minimum Over coating Interval	6 hours at 20°c 5 hours at 30°c 4 hours at 40°c
Maximum Over coating Interval	10 months at 20°c 7 months at 30°c 5 months at 40°c
Dry to handle	4 hours
Dry Film Thickness Range	25-150 µm
METHOD OF APPLICATION	Roller, Brush Airless & Conventional Air Spraying

### THEORITICAL SPREADING RATE (M²/L)

Thickness	MIN	MAX.	TYPICAL
Wet Film	80	200	150
Dry Film	35	90	65
(M²/Liter)	12.5	5	7

- Depending on type of application and surface preparation quality, two coats is the minimum recommended application.
- Loss factors will apply in practice.

### DRYING TIMES/HOURS

Substrate Temp.	10° C	25° C	30° C
Touch Dry	1 h	30 min	15 min
Hard Dry	8 h	2 h	2 h

#### Minimum to recoat

Substrate Temp.	10° C	25° C	30° C
With alkyd paint	6 h	4 h	2 h
With 2 K systems	2 weeks	1 weeks	5 days

The given data serve as guideline only. The actual drying time differs according to film thickness, ventilation, humidity and underlying paint system.

### SYSTEM SPECIFICATION

PROTECTIVE COATINGS SYSTEM

### WHERE TO USE

- Used as a primer on steel in an anticorrosion alkyd system.
- Steel structures.
- Marine works.
- Used as anticorrosive primer in alkyd system exposed to corrosive forces of nature (ultraviolet light, moisture and many other factors )
- Used as an anticorrosive primer in protective coating systems for steel structures, storage tanks, containers, power stations, pipe lines and offshore,
- Used for small and large infrastructure projects.
- Used with low slip additive for floors and decks.

### ADVANTAGES

- Excellent recoatable primer, can be over coated with most alkyd-, chlorinated rubber-, and most of one component system.
- Excellent anti-corrosive properties and water resistance
- On board maintenance primer
- Quick drying tough hard wearing film.
- Good mechanical properties and Surface tolerant
- Low odor and excellent application properties.
- Very good flow and opacity.

### PRECAUTIONS

- No extra thinner to be added more than recommended
- Excess thinner will cause sagging, segregation and will reduce adhesion, durability, anticorrosive properties and weathering resistance.
- Remaining material (in closed containers) should be maintained in protected storage in accordance with



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information given in the storage, health and safety section of this data sheet.

- Maximum relative humidity during application and curing is 85% R.H

**INSTRUCTIONS FOR USE**

**1 RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES**

- This product will not cure adequately below 5°C (41°F).
- For maximum Performance ambient curing temperatures should be above 10°C (50°F).
- Optimum performance is achieved when this coating is applied over blasted steel.

**2 SURFACE PREPARATION**

**CONCRETE**

- Concrete should be free of contamination, dust and efflorescence, and properly prepared
- Any steel in the application area should be exposed around its full circumference and thoroughly cleaned to remove all loose scale and corrosion deposits either by mechanical properties like sand blaster or mechanical abrasive like chipping or whip sand blasting or by using a suitable rust remover (PRODERUST)

**Bare Steel (Ferrous & Non Ferrous Metal)**

**NEW BUILDING**

- As with all coating systems, surface preparation is of prime importance.
- All substrate surfaces must be properly prepared, clean, and free from oil, grease, dust, rust or any loosely adhering material.
- High pressure of fresh water wash is required to release soluble contaminants, and other detrimental foreign matter
- Surface should be cleaned by sand blasting to Sa2½ (ISO-8501-1:2007), blasting profile 30 – 75 µm
- Power tool cleaning to min. St2 (ISO 8501-1:2007) may be acceptable,
- If oxidation has occurred between blasting and application of PROGUARD AL PRIMER, the surface should be re-blasted to the specified visual standard

**SHOP PRIMED STEEL**

Weld seams and areas of damaged shop primer or breakdown should be blast cleaned to Sa2½ blasting profile 30 – 75 µm or power tool cleaned to SPSS- Pt3

**COATED SURFACE**

Clean, dry and undamaged compatible primer.

**OTHER SURFACES**

For aluminum substrates, thorough washing and sweeping with a nonmetallic blast medium is required.

**MAJOR REPAIR & REFURBISHMENT**

- Abrasive blast clean to Sa2½.
- Blasting profile 30 – 75 µm.

- If oxidation has occurred between blasting and application of PROGUARD AL PRIMER, surface should be re-blasted to the specified visual standard.
- Surface defects revealed by the blast cleaning process, should be ground filled, or treated in the appropriate manner

**3 MIXING**

- Material is supplied in one container.
- The temperature of the paint should preferably be above 15°C, otherwise extra solvent may be required to obtain desired application viscosity
- Handle with care. Stir well before use and mix thoroughly with power agitator till homogenous.
- The paint temperature should be above 15° C.
- Don't add too much thinner more than recommended (0–10%)

**4 APPLICATION**

- PROGUARD AL PRIMER FD can be applied with airless spray, conventional spray, brush or roller.
- When applying PROGUARD AL PRIMER FD in confined spaces ensure adequate ventilation during application and curing
- Substrate temperature should be above 50°F (10°C) & at least 5°F (3°C) above dew point.
- Apply in good weather when air temperature and surface temperatures are above 50°F (10°C) and humidity is 70% R.H
- For optimum application properties, bring material to 70-80°F (21-27°C) prior to mixing and application.
- This product is not recommended for use in immersed conditions

**5 THINNING**

Thinning range should be only (5 : 15%) with PROTECH special thinner PROTHINNER AL

**BRUSH AND ROLLER**

- Thin if required with 0-5% of PROTECH special thinner PROTHINNER AL depending on required thickness and application conditions.
- Do not allow material to remain in brush and rollers
- Thoroughly flush brush and rollers with PROTECH cleaning thinner PRO THINNER CL

**CONVENTIONAL AIR SPRAYING**

- Use suitable proprietary equipment
- Thin with 5-10% of PROTECH special thinner PROTHINNER AL depending on required thickness and application conditions.
- Tip size is approx...1.7 - 2.0 mm
- Nozzle pressure at spray tip not less than 4.0 kg/cm² (0.2 – 0.3 MPa = 2 - 3 bar = 28 - 43 p.s.i.)
- Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with PROTECH cleaning thinner PRO THINNER CL

**AIRLESS SPRAYING**

- Thin with 0-5% of PROTECH special thinner PROTHINNER AL depending on required thickness and application conditions.





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- Recommended tip size 0.38 - 0.48 mm approximately
- Nozzle pressure at spray tip not less than 150 kg/cm<sup>2</sup> (12 - 16 MPa = 12 – 160 bar = 1700 - 2270 p.s.i.)
- Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with PROTECH cleaning thinner PROTHINNER CL
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**WELDING**

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation

**PACKAGING:**

PROGUARD AL PRIMER FDis available in 5, 20, & 200 kg

**STORAGE AND SHELF LIFE**

PROGUARD AL PRIMER FDis has shelf life of 12 months minimum at 77°F (25°C) when store in its original unopened packs in proper conditions under shaded cover, out of direct sunlight and protected from extremes of temperature conditions and away from sources of heat and ignition and humid environmental and free from heat and frost

**CLEANING**

- PROGUARD AL PRIMER FDis should be removed from tools & equipment immediately after application by cleaning with PROTECH SPECIAL cleaning thinner PRO THINNER CL
- Do not allow material to remain in hoses, gun or spray equipment.
- Thoroughly flush all equipment with International PROTHINNER CL
- It is good working practice to periodically flush out spray equipment during the course of the working day
- Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays.
- All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

**HEALTH AND SAFETY:**

- All work involving the application and use of this product should be performed in compliance with all

relevant national Health, Safety & Environmental standards and regulations.

- Prior to use, obtain, consult and read well the Material Safety Data Sheet for this product and follow all precautionary notices.
- Proper ventilation and protective measures must be provided during application and drying to keep solvent vapor concentrations within safe limits and to protect against toxic or oxygen deficient hazards.
- This product may contains hazard materials or aggressive solvent.
- Take precautions to avoid inhalation of spray mist, skin, mucous membrane and eye contact by the use of safety equipment (gloves, goggles, face masks, barrier creams etc.) and other personal protection.
- If skin comes in contact, it should be thoroughly flushed and washed with fresh water and proprietary cleanser and soap.
- Eyes should be cautiously washed with fresh water or proprietary wash and medical attention obtained.
- Don't use solvents for skin cleaning.
- Equipment and tools to be cleaned immediately after use with PROTHINNER CL.
- Don't dispose of water or soil but according to local regulations.
- PROGUARD AL PRIMER FD is class 2 according to health and safety codes.
- Keep labelled until decontaminated.

**ADDITIONAL INFORMATIONS**

PROTECH provides all type of coatings and construction chemicals which answers the queries of modern engineers for trouble free durable structure.

PROTECH create special and specific products when there are critical applications that require specific requirements (tailor made designs)

PROTECH technical office gives this information and recommendations relating to the application of products in this data sheet representing test results & practical experience obtained under a good and controlled conditions when properly stored, handled and applied under normal condition.

However, as products are often used under different conditions, we can only guarantee the quality of our product, and reserve the right to change data without further notice

PROTECH data are correct to the best of our knowledge and experience of products.

The differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose.

All orders are accepted subject to our current terms of sale and delivery.

PROTECH users should always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

PROTECH technical services department is ready to provide our customers with more information and after sales support to assist our customers in a proper application, so don't hesitate to consult us.