



## TWO COMPONENT RECOATABLE POLYURETHANE FINISH

### Features

- Resistant to mild acids, alkalis and fuel
- Outstanding UV and weather protection
- High chemical and abrasion resistance
- Suitable for exterior environments
- Excellent anti-corrosion coating

### General Description

Al Khaleej Polyurethane Finish is a multi-use, two-component isocyanate cured urethane appropriate for use on both metal and masonry. This product provides excellent gloss and color retention when used on exterior surfaces exposed to sunlight and rain, and the highly cross-linked formula provides superior abrasion, chemical, and solvent resistance. Due to these outstanding features, urethanes are often used as the final layer in a multi-layer system on steel or masonry.

**This is a two-component product that requires 4 parts of the proper "A" component mixed with 1 part of part "B" catalyst. The components are already premeasured to the proper mix ratio. No measuring required. Do not mix partial kits.**

### Recommended for

Properly Prepared and Primed Steel, Iron, Non-Ferrous, Concrete, and Fiberglass. Ideal for Food and Beverage Processing, Industrial Maintenance, Paper and Pulp Processing, Transportation, Industrial Flooring, General Metal Finishing / Fabrication, Chemical Processing, Commercial Structures, Tank Exteriors and other areas requiring a long-life protective coating.

### Limitations

- This product is not recommended for surfaces that require immersion

### TECHNICAL DATA

|                                       |  |   |   |
|---------------------------------------|--|---|---|
| <b>Generic Type</b>                   | Isocyanate Cured Polyurethane          | <b>Dries by</b>                           | Chemical Cure   |
| <b>Pigment Type</b>                   | Pigment Type Titanium Dioxide          | <b>Dry Heat Resistance</b>                | 230 °F (110°C)  |
| <b>Volume Solids</b>                  | 72% ± 1.0% (when mixed as recommended) | <b>Finish</b>                             | Available in Gloss and Eggshell   |
| <b>Coverage per Gallon</b>            | 350 – 400 Sq. Ft.at Recommended DFT    | <b>Surface Temperature at Application</b> | Min. 15°C   |
| <b>Recommended Film Thickness</b>     | Wet: 75 ± 5 microns                    |   | Max. 35°C   |
|                                       | Dry: 60 ± 5 microns                    | <b>Thinner</b>                            | Surface must be dry and at least 5° above the dew point<br>Guardian Thinner for PU Finish |
| <b>Induction time @ 70 °F (21 °C)</b> | 15 Minutes                             | <b>Pot Life</b>                           | 3 Hours @ 77 °F (25 °C)   |
| <b>Drying Time @ 30°C</b>             | To Touch: 2 to 3 Hours                 | <b>Storage Temperature</b>                | Min. 15°C   |
|                                       | To Recoat: 16 to 24 Hours              |   | Max. 32°C   |
|                                       | Full Cure: 72 Hours                    | <b>Recommended Primer</b>                 | Guardian Epoxy Zinc Phosphatate Primer<br>Guardian Epoxy Zinc Rich Primer                 |

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### Surface Preparation

The performance of this product is directly dependent upon the degree of surface preparation employed. Rust and mill scale must be removed from carbon steel and iron substrates as outlined on specific primer data sheets. Surface to be coated must be clean, sound and dry. Fresh concrete must age at least thirty days before coating. All oil, grease, release agents, curing compounds, concrete hardeners and other contaminants must be removed before coating

#### NEW SURFACES

**Steel:** Blast selection and choice of primer will be dependent on the severity of exposure and degree of protection required. For best results, one coat of Guardian Micaceous Iron Oxide Epoxy Intermediate is recommended after application of a suitable Epoxy Primer.

**Concrete:** All masonry surfaces must be allowed to cure a minimum of 30 days before painting. Prime concrete with 1 coat Guardian Clear Epoxy Pre-Primer followed by 1 coat of Guardian Polyamide Epoxy and a topcoat of Guardian Two Component Polyurethane.

**Galvanized and Non-Ferrous Metals:** Solvent clean all surfaces. Apply 1 coat of Guardian Etch Primer to improve adhesion.

**Fiberglass:** Can be applied directly to clean, previously unpainted fiberglass. Scuff sand fiberglass to promote better adhesion.

**Previously Painted Surface:** Can be applied over old thermoset finishes in good condition. Test patches are recommended to check for wrinkling or lifting of existing coatings. If lifting occurs, Guardian Clear Epoxy Pre-Primer may be used over all existing coatings as a barrier coat.

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.

### Application

Mix the "A" and "B" components thoroughly before mixing together. The use of a drill mixer at low speed will best accomplish this task. Add the full contents of the quart size "B" component to the "A" and thoroughly mix the two together. Allow 15 minutes induction time (at 25°C) prior to applying the mixed product to the substrate. Once mixed, the paint must be consumed within 3 to 4 hours to avoid gelling. Do not apply if air or surface temperatures are below 10°C or relative humidity levels are greater than 85%, or if surface or air temperatures are within 5 degrees of the dew point. Product should be allowed to dry tack free prior to air or surface temperatures being within 5 degrees of the dew point.

**Airless Spray:** Tip range between .013 and .017. Total fluid output pressure at tip should not be less than 2400 psi.

**NOTE:** Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. If material begins gelling, immediately flush equipment as product has reached pot life.

#### CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)

|                         |           |
|-------------------------|-----------|
| Fresh Water             | Excellent |
| Salt Water              | Excellent |
| Acids                   | Excellent |
| Alkalis                 | Excellent |
| Solvents                | Excellent |
| Fuel                    | Excellent |
| Acidic Salt Solutions   | Excellent |
| Alkaline Salt Solutions | Excellent |
| Neutral Salt Solutions  | Excellent |

#### Recommended Systems

|                       |   |
|-----------------------|---|
| For Blasted Metals    | 1st Coat: Guardian Epoxy Zinc Phosphate Primer                      |
|                       | 2nd Coat: Guardian Epoxy Intermediate                               |
|                       | 3rd Coat: Guardian Polyurethane Finish                              |
| For Galvanized Metals | 1st Coat: Guardian Etch Primer                                      |
|                       | 2nd Coat: Guardian Epoxy Zinc Phosphate Primer                      |
|                       | 3rd Coat: Guardian Intermediate coat or Polyurethane Finish Coat    |
| For Aged Coatings     | Use Direct or use Guardian Clear Epoxy Pre-Primer as a barrier coat |

**KEEP OUT OF REACH OF CHILDREN  
FOR PROFESSIONAL USE ONLY**