

# AURO

## TECHNICAL INFORMATION

### AURO Natural metal primer No. 234

#### TYPE OF MATERIAL

Opaque metal primer for interior and exterior applications.

#### APPLICATION

Suitable as basic corrosion protective treatment on uncoated rust-free steel and metal materials indoors and outdoors. A final treatment with AURO top coats (Nos. 235, 236, 240) is necessary.

#### TECHNICAL CHARACTERISTICS

Opaque primer. With the help of ferro-minerals, special natural fillers and the best combination of different plant resins and oils it creates an anti-oxidation and rust resistant surface. Easy to apply, spreading rate and leveling good. When priming exterior materials a final treatment with AURO exterior top coats is swiftly necessary. Elastic product and temperature stable up to 80 C/ 175 F.

#### BIOLOGICAL-ECOLOGICAL CHARACTERISTICS

No emission of poisonous or harmful gases; free of chlorinated hydrocarbons, poisonous heavy metals, phosphorus compounds or other non-degradable environmental poisons. No harmful gases are omitted from completely cured coats, harmless when in direct contact with organisms. Natural ingredients have their own characteristic smell. All the natural ingredients have been known to the human organism since the evolutionary periods, therefore a real knowledge of the long term effects on life. Pure plant based binding agents and solvents. Raw materials from closed ecological cycle. Plant chemical composition exclusively produced with solar energy (photosynthesis). Produced to special ecological standards, utilizing natural gentle chemical and technological procedures unarmful to the environment. Integrates fully with mature ecological systems. With no recognizable long-term risks for the environment.

#### COMPOSITION - we list all our ingredients, of course

Over 10%: linseed stand oil, earthen and mineral pigments, citrus terpene; between 1-10%: tung stand oil, resinene stand oil, zinc-chalk colophony, colophony glycerin ester, larch resin balm, dammar, silicate clay, talcum (asbestos-free); under 1%: calcium/cobalt/zirconium octoat dryer (lead-free), plant alcohol, silicic acid.

#### VOC COMPOUNDS (percent of mass)

35 %.

#### COLOR

Light red-brown.

#### DENSITY

Approx. 1.2 g per cubic cm.

#### VISCOSITY

Approx. 240 seconds (DIN 4 mm) at 20 C/ 68 F.

#### HAZARDOUS MATERIALS CLASSIFICATION

Combustible. Flash point approx. at 45 C/113 F. Caution: Soaked rags must be kept in closed water-filled metal containers (spontaneous combustion possible because of content of dry oils).

#### APPLICATION METHODS

Brushing, rolling or spraying on. Stir well before using. Do not apply to thick.

#### THINNER

Ready-to-use mixture. In special cases the product can be thinned with AURO plant thinner No. 191.

#### QUANTITY REQUIRED

Approx. 0.10-0.12 L per m<sup>2</sup> (10 sq. ft).

#### DRYING TIME IN NORMAL CLIMATE

a) tack free after about 8-10 hours.  
b) dry and ready to sand and paint after about 24 hrs.  
Longer drying times are to be expected in the event of excessive use, high humidity and/or low temperatures.

#### TOOL AND EQUIPMENT CLEAN UP

Immediately after use with AURO plant thinner No. 191.

#### STORAGE

Store cool, dry and in closed container. Protect from freezing. Storage stability approx. 1 year.

#### SAFETY MEASURES

Agitate well before using. Application temperature: at least 8 C/ 47 F. Product is combustible and can create flammable fumes during application. Keep out of reach of spark or flame producing objects (lighted cigarettes etc).

Caution: Soaked rags must be kept in closed water-filled metal containers (**spontaneous combustion possible because of content of dry oils**).

When working with the product, sufficient skin and eye protection must be worn and adequate ventilation (cross ventilation without any draft) must be provided. Wash thoroughly after handling. Use good painting practices.

Do not pour paint residue into the sewer system in spite of its biological degradability. Do not take internally. Close container after each use.

Persons with allergies to certain natural substances are advised to consult the list of ingredients.

**Keep natural paints out of reach of children.**

**Reminder!** If you have never worked with our product before you must first try it out and test it on some sample scrap material (our products apply, smell and work different - start out by using smallest size for testing). Also please see 'terms and conditions' on invoice / bill back side.

# Recommended Application

## AURO Natural metal primer No. 234

### **1.0 SURFACE**

#### **1.1 SUITABLE SURFACE MATERIALS**

Untreated, steel and metal materials. Rust must have been completely removed.

#### **1.2 BASIC REQUIREMENTS FOR SURFACES**

The surface must be dry, chemically neutral, clean and grease-free; no old coatings.

### **2.0 APPLICATION OF COATING**

#### **2.1 SEQUENCE OF COATING ON UNTREATED SURFACES**

##### **2.1.1 PREPARATION OF SURFACE**

Sand (60-120 grit) thoroughly to remove all rust and clean off all dust. Do not use any rust conversion chemicals.

##### **2.1.2 BASIC TREATMENT**

Brush, roll or spray AURO natural metal primer No. 234 on very evenly. When spraying thin with AURO plant thinner No. 191 depending on equipment used. Provide adequate air ventilation. Let surface dry for 24 hours, light sanding.

##### **2.1.3 INTERMEDIATE TREATMENT**

Apply AURO natural metal primer No. 234 as described under 2.1.2 but apply very sparingly. Let surface dry for 24 hours, light sanding.

##### **2.1.4 FINAL TREATMENT**

Depending on surface material and wanted color tone, apply AURO white natural top coat No. 235, AURO colored natural top coat No. 241-248 or AURO natural resin radiator paint No. 237 (refer to appropriate technical information leaflets).

#### **2.2. SEQUENCE OF COATING WHEN RENEWING COATS**

##### **2.2.1 PREPARATION OF SURFACE**

Properly preserved surfaces must be sanded to a matt finish. Any rust must be removed with wire brush or sander. Small unevenness of the surface must be smoothed out.

##### **2.2.2 BASIC TREATMENT**

Surfaces where the rust has just been removed are treated as described under 2.1.2.

##### **2.2.3 INTERMEDIATE TREATMENT**

Surfaces where the rust has just been removed and that have been primed are recoated with AURO natural metal primer No. 234 as described under 2.1.3.

##### **2.2.4 FINAL TREATMENT**

Depending on surface material and wanted color tone, apply AURO white natural top coat No. 235, AURO colored natural top coat No. 240-xx or AURO natural resin radiator paint No. 237 (refer to appropriate technical information leaflets).

### **3.0 DISPOSAL OF PRODUCT RESIDUE**

Do not pour away product residue of AURO natural metal primer No. 234. Opened containers should be closed tightly. Agitate container before storing for a longer period of time and use for touch-ups or other applications. Looking at our ingredients, one may compost any dried up residue. According to state and federal regulations any leftover must be deposited at designated waste sites.

All information is based on knowledge compiled from long term research and practical tests and experience. It is meant to inform and advise the customer or user but does not release him from checking the suitability of the product for the intended application. No claims can be derived from this information. Issuing this leaflet makes previous technical information leaflet obsolete.  
State of information: Feb. 1st, 1992

© AURO 1990

# AURO

AURO Pflanzenchemie GmbH • Postfach 12 38 • D-38002 Braunschweig • Tel. (05 31) 2 81 41 41

GB AURO Ltd. 01799-584888 IRL AURO Ltd. 071-43452 USA Sinan Comp. 916-753-3104 J Inui Corp. 0081-6-231-2971 S.-E. Asia Living Stone Corp. 0082-2 5631404