

# MANDARIN DUCK QUICK DRYING RED OXIDE PRIMER



[www.toagroup.com.vn](http://www.toagroup.com.vn)

## DESCRIPTION

**MANDARIN DUCK Quick Drying Red Oxide Primer** is fast drying primer, produced from high quality alkyd resin and special rust inhibitive pigment. This is the safe paint for health since Lead and Mercury aren't used in manufacturing process.

## TYPICAL USE

**MANDARIN DUCK Quick Drying Red Oxide Primer** is quick drying, rust prevention primer, suitable for iron and steel surface in such application as construction structure, machineries, railways, gates, trellis, windows, tower, etc.

## PRODUCT DATA

- **Components** : Binders, pigments, additives and solvents
- **Color** : Red oxide
- **Paint film appearance:** Matt
- **Solid by volume** : 55 ± 2 %
- **Theoretical coverage** : 11.0 – 13.8 m<sup>2</sup>/liter/coat

*Actual surface coverage will be depended on spreading ability of paint film, dry film thickness, surface irregularities, technique and wastage during painting.*

- **Volatile organic compounds**

**(VOCs)** : ≤ 350 g/L

- **Flash point** : ~42°C

- **Drying time (at relative humidity (RH) 50% & dry film thickness (DFT) 30µm - 40µm):**

|                                     |      |      |        |
|-------------------------------------|------|------|--------|
| ○ <b>Surface temperature</b>        | 25°C | 30°C | 35°C   |
| ○ <b>Surface dry (touch dry)</b>    | 2h   | 1h   | 30 min |
| ○ <b>Hard dry</b>                   | 6h   | 5h   | 4h     |
| ○ <b>Painting interval, minimum</b> | 6h   | 5h   | 4h     |

*Actual drying time and painting interval time may be longer or shorter than provided data, depended on environmental temperature, dry film thickness, ventilation, humidity and number of coating applied, etc.*

## RECOMMENDED PAINT FILM SYSTEM:

| SYSTEM                     | PRODUCT   | COAT(S) | DRY FILM THICKNESS |
|----------------------------|---|---------|--------------------|
| <i>For metal surfaces:</i> |   |         |                    |
| Primer                     | MANDARIN DUCK QD Red or Grey Oxide Primer   | 1 - 2   | 45µm               |
| Topcoat                    | MANDARIN DUCK alkyd high gloss enamel paint or HOMECOTE alkyd high gloss enamel paint | 2       | 35µm               |

# Technical data sheet

## APPLICATION INSTRUCTION

### ▪ SURFACE PREPARATION

- Make sure the surface is dry and clean, free from grease, oil, waxy contamination, rust or mill scale.

#### *For industrial purpose:*

- Oil and grease must be cleaned in accordance with SSPC-SP1, Solvent Cleaning.
- Surface should be blast cleaned, at least achieved Sa 2.0 – Sa 2.5 (ISO 8501-1:2007).
- With area cannot be blast cleaned, use power tools to clean the surface at least achieved St2 – St3 (ISO 8501-1:2007).

### ▪ APPLICATION

#### Equipment / methods:

Brush, roller, conventional spray, airless spray

For airless spray gun:

- Nozzle tip size : 0.013" – 0.021"
- Angle to the surface : 65° – 80°
- Pressure at nozzle : 140 – 190 Kg/cm<sup>2</sup> (2.000 – 2.600 Psi)

#### Paint film thickness:

|                             | Min  | Standard | Max  |
|-----------------------------|------|----------|------|
| - Dry film thickness (DFT): | 40µm | 45µm     | 50µm |
| - Wet film thickness (WFT): | 73µm | 82µm     | 91µm |

*Film thickness will vary and is calculated as average.*

#### Dilution ratio:

**Paint is ready to use after proper stirring until homogeneous.**

**Add in maximum 5% TOA alkyd thinner #21 by volume if thinning is necessary.**

*Dilution percentage is depending on ambient temperature, relative humidity, paint film thickness, equipment and application method.*

## CERTIFICATION

*TCVN 5730:2008 – National technical regulation on Alkyd paints certified.*

*QCVN 08:2020/BCT – National technical regulation on the limits of lead content in paints certified.*



# Technical data sheet

---

## HANDLING AND STORAGE

The product must be stored in accordance with national regulations.

Store in a dry, cool, good ventilation area; far from heat, open flame, flammable materials.

Tightly closed when not in use.

Keep out of reach of children.

Stir well before use, paint should be used up when lid opened.

Storage temperature is recommended at 25°C – 30°C.

Do not apply when temperature is lower than 15°C or higher than 40°C.

Do not apply when relative humidity exceeds 75%.

Surface temperature should be at least 3°C higher than the dew point of the air.

## HEALTH AND SAFETY

Please do not handle until all safety precautions have been read and understood.

Keep away from heat, sparks, open flame, hot surface. No smoking.

Wear protective gloves, respirator, eye protection, protective clothing.

Avoid contact with skin, eyes or ingestion. Go right to the nearest health center for help in case of ingesting paint or paint contacts with eyes.

Avoid release to the environment. Treat discarded paint according to environmental law.

See more guidelines in the Safety Data Sheet.

## PACKAGING

17.5 liter; 3 liter; 0.8 liter and 0.375 liter

## SHELF LIFE

36 months from manufacturing day when stored at 25°C – 30°C

## DISCLAIMER

The information in this data sheet is given to the best of TOA's knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, TOA cannot guarantee anything only the quality of the product itself. TOA reserves the right to change given data without notice.

*Revision: 01*

*Issue: 02.12.2022*

## Technical data sheet

---

### **TOA PAINT VIETNAM CO., LTD**

Factory: Lot L2,3; Road No.2, Tan Dong Hiep A IP,

Di An city, Binh Duong province

Tel: 0274 3775 678 – 3775004

Fax: 0274 3775005

Website : [www.toagroup.com.vn](http://www.toagroup.com.vn)

### **OFFICE**

Flat 8, Room 8.5, E-Town 3 Building,

364 Cong Hoa street, ward 13,

Tan Binh district, Ho Chi Minh city

Tel: 028 38131999 Fax: 028 38131114