

Primetal

TECHNICAL DATA SHEET



Description of the product

The **PRIMETAL series** consists of anticorrosive primers, based on alkyd resins, offering excellent anticorrosive protection on any kind of metal surface.

PRIMETAL 60: primer for metal surfaces that are not exposed to outdoor or intensively corrosive conditions. It is also suitable for wooden surfaces.

PRIMETAL 43: primer for metal constructions that are exposed to mild environmental conditions.

PRIMETAL 45: primer with extra anticorrosive properties.

PRIMETAL A6: the ultimate anticorrosive primer of the series. It contains lead and zinc chromate.

Recommended uses

They offer anticorrosive protection on metal surfaces. They are applied as undercoats for alkyd top coats, such as **MOBILAC**.

Technical characteristics

Resin: Alkyd

Density: 1.56±0.16 gr/ml, depending on the product (EN ISO 2811.01, 20°C)

Production viscosity: 6.5±1 poise (ISO 2884.2, 20°C)

Storage Viscosity: 7.5±2.5 poise (ISO 2884.2, 20°C)

Solids b.w.: 75±5%, depending on the product (EN ISO 3251)

Solids b.v.: 51.5±5%, depending on the product (ISO 3233)

Flash point: A: 25±2°C, B: 21±2°C (EN ISO 1523)

VOC (Volatile Organic Compounds): The **PRIMETAL series** belongs to the category A/j SB (One-pack performance coating). EU Limit Value: 500 g/l. The ready to use product contains max. 499 g/l.

Shades

PRIMETAL 60: white, PRIMETAL 43: grey, PRIMETAL 45: red-brown, PRIMETAL A6: orange.

Properties

Gloss 60°/ 85°: 60±5/75±5 (EN ISO 2813)

Adhesion (Cross Cut on metal): 1-2 (EN ISO 2409)

Hardness (König): 67±23 sec, after 7 days, depending on the product (EN ISO 1522)

Impact test:

Primetal 43: in/out: 26±4/0-4 inch/pounds

Primetal 45: in/out: 30±4/0-4 inch/pounds (EN ISO 6272)

Primetal 60: in/out: 16±2/0-2 inch/pounds

Primetal A6: in/out: 40/60 inch/pounds

Bend test (Mandrel):

Primetal 43, 45 & A6: 2-3 mm OK/Primetal 60: 5-6 mm OK (EN ISO 1519)

Resistance to Salt Spray: 45±5 µm:

Primetal 43: Very good protection for at least 300 hours

Primetal 45: Very good protection for at least 400 hours (EN ISO 7253)

Primetal 60: Good protection for at least 400 hours

Primetal A6: Excellent protection for at least 500 hours

Resistance to Salt Spray: As a system with MOBILAC and DFT 85±5 µm:

Primetal 43: Very good protection for at least 500-600 hours (EN ISO 7253)

Primetal 45: Very good protection for at least 600 hours

Sag resistance (undiluted product):

Primetal 43: 175±25 µm

Primetal 45: 225±25 µm (EN ISO 7253)

Primetal 60: 300±25 µm

Spreading rate

Dry film thickness per coat: 45±5 µm.

Spreading rate: 11±2 m²/lt, per coat, depending on the product.

Application instructions

Surfaces must be dry, clean from oils, dust and flaking parts must be removed. The surfaces are then sand papered. For stabilizing or removing rust from metal surfaces we recommend the application of **PRERUST** and **RUSTABIL** respectively.

PRIMETAL is applied in 1-2 coats. An enamel top coat, e.g. **MOBILAC**, is then applied as the final coat.

Application method: Brush, roller, spray.

Diluent: CHROTEX BRUSH SOLVENT or CHROTEX SPRAY SOLVENT, depending on the application method.

Thinning: For application with brush, roller: Dilute up to 10% v/v. [Application viscosity: 50±10 sec (DIN 53211/4 mm, 20°C)].

For spraying: Dilute up to 20 v/v. [Application viscosity: 22±5 sec (DIN 53211/4 mm, 20°C), nozzle size: 1.5-1.8 mm, air pressure: 2-2.5 atm].

Tools are cleaned immediately after the application with solvent, soap and water.

Drying time

Dry through (Primetal 60 & A6): 25±5 minutes (ASTM D 1640).

Dry through (Primetal 43 & 45): 13±3 minutes.

Recoating time: After 8 hours.

Drying and recoating time may be prolonged under conditions of low temperature and high relative humidity.

Coating system

After the application of PRIMETAL apply an enamel top coat, such as MOBILAC.

Other systems may be applied, depending on the application.

Packaging

Available in 0.375 Lt, 0.75 Lt and 2.5 Lt cans. PRIMETAL 43 & 60 are also available in 5 Lt cans.

Storage

1 year provided the cans remain closed and in normal storing conditions.

Health and safety

Please refer to the labeling on the can. In case more information is needed refer to the Material Safety Data Sheet.

Notes

- It is recommended to avoid the application of the product at temperatures below 10°C, greater than 36°C and relative humidity higher than 85%.

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