



Yeolcoat Primer QP160 (Two-Component)

Product Description A pure silicone resin based heat resistant primer containing inorganic pigments. After curing, the coating is very good resistant to thermal shock conditions from substrate temperature to 600 °C/1112 °F, and provides excellent rust preventing property.

Recommended Use As a heat resistant primer for use on stove, motor, boiler, heater, ship's engine, muffler, ventilator, steam lines and similar thermal implements operating from ambient temperature to 600 °C/1112 °F.

Physical Properties

Finish and Color Flat. Grey

Drying Time

Substrate temperature	5 °C/41 °F	20 °C/68 °F	30 °C/86 °F
Set to touch	4 h	1 h	30 min
Dry to hard	24 h	10 h	8 h

* For full hardness, the coating should be exposed in service at temperature of 200 °C/392 °F over 1 hour time period.

Solids by Volume Approx. 35 % (Determined by ISO 3233)

Theoretical Spreading Rate 17.5 m²/L in 20 μm dry film thickness on a smooth surface.

Specific Gravity Approx. 1.44 with Zinc Filler.

Flash Point 26 °C/79 °F (Closed cup)

Application Details

Surface Preparation Remove any oil grease, dirt and any other contaminants from the surface before painting by proper method such as solvent cleaning and fresh water washing, etc.
* Steel : Blast cleaning to Sa 2.5 or Power tool cleaning St3, etc.

Application Conditions The surface should be completely cleaned and dried. Do not apply when relative humidity is above 85 %. The surface temperature should be at least 2.7 °C (5 °F) above dew point to prevent condensation. In confined areas, ventilate with clean air during application to assist solvent evaporation.

Mixing Base : Zinc Filler = 17.4 : 5.5 (by weight)
Mix thoroughly together prior to application in the proportions with power agitator as delivered.

Thinning Thinner No. 002, 029K
Do not dilute each components separately.

Disclaimer : The information in this data sheet is believed to the best of our knowledge based on laboratory test and practical experience. However, there are many factors affecting the performance of product and the product quality itself, so we are not able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.

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Application Method Spray (Airless or Air) application.
For airless spray application ;
Nozzle orifice : 330 μm ~ 381 μm (0.013" ~ 0.015")
Output pressure : 11.7 MPa ~ 15.2 MPa
Fan : 60°
(Airless spray data are indicative and subject to adjustment)

Typical Film Thickness 20 ~ 25 μm dry.

Recoating Interval At 20°C/ 68°F, Minimum : 1 h
Maximum : Free

Before overcoating, remove any oil, salt, chalking material and any other contaminants on aged film completely by proper cleaning method such as solvent cleaning and/or fresh water washing.

Subsequent Coat Yeolcoat QT604, Yeolcoat QT606 or according to specification.

Shelf Life 12 months

Heat Resistance Continuous : 600°C/1112 °F (Non-immersion service)

Chemical Resistance

	Acids	Alkalis	Solvents	Salts	Water
Splash & Spillage	Fair	Fair	Good	Good	Good
Fumes	Good	Good	Good	Good	Good
Immersion	NR	NR	Good	Good	Good

* NR : Not Recommended.

Standard Packing Unit 18 L (Base : Zinc filler = 17.4 kg : 5.5 kg)

Remarks The packing should be turned regularly twice a month to prevent the deposition.
Avoid prolonged breathing of solvent vapors. Use with adequate ventilation.
Respiratory protection is recommended during application in confined spaces or stagnant air. Keep away from sparks and open flames. Unduly heavy coat result in impaired adhesion.
Although this product air dry rapidly, it remain somewhat soft until exposed to heat over 200 °C/392 °F, and may be susceptible to mechanical damage.
However, it is unaffected by moderate term weather exposure.
Unduly heavy coat result in impaired adhesion.
Keep the recommended dry film thickness.

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