

## ColyHeatshield 960

### Heat Resisting Silicone Aluminium

#### Product Description

A Single component formulated using heat resistant silicone binders and aluminium pigments to withstand high temperature environments up to 600 °C. It widely used for the protection of steel from corrosion on areas such as flare stacks, chimneys, exhausts, vents and pipework in the industrial environment. ColyHeatshield 960 can be applied over ColyIOZ 700 and ColyIOZ 701 (Inorganic Zinc Silicate Primer) for maximum corrosion protection.

#### Product Information

|                  |   |            |
|------------------|---|------------|
| Finish           | : | High Sheen |
| Color            | : | Aluminium  |
| Component        | : | 1          |
| Volume Solids    | : | 22%        |
| Specific Gravity | : | 1.02 gr/ml |
| Flashpoint       | : | > 25 °C    |

#### Application Information

|                                                |   |                 |
|------------------------------------------------|---|-----------------|
| Wet Film Thickness (μ)                         | : | 90 – 223 / Coat |
| Dry Film Thickness (μ)                         | : | 21 – 50 / Coat  |
| Theoretical Spreading Rate (m <sup>2</sup> /L) | : | 4.5 – 11        |

#### Application Methods

|                    |   |                                   |
|--------------------|---|-----------------------------------|
| Brush & Roller     | : | Recommended method of application |
| Conventional Spray | : | Recommended method of application |
| Airless Spray      | : | Not Recommended                   |
| Thinner / Cleaner  | : | Thinner C30                       |

#### Drying & Curing Time

| Substrate Temperature | Touch Dry | Hard Dry | Overcoating Interval |            | Pot Life |
|-----------------------|-----------|----------|----------------------|------------|----------|
|                       |           |          | Minimum              | Maximum    |          |
| 10 °C                 | 7 hours   | 28 hours | 24 hours             | Indefinite | -        |
| 25 °C                 | 5 hours   | 18 hours | 16 hours             | Indefinite | -        |
| 30 °C                 | 2 hours   | 6 hours  | 8 hours              | Indefinite | -        |

\*The properties above may vary with surface temperature, site environment, film thickness, etc.

\*Full cure and hardness will only be obtained after curing at minimum of 150°C.

#### Packing & Storage

|            |   |                                                                                                          |
|------------|---|----------------------------------------------------------------------------------------------------------|
| Packing    | : | 5.0 Liters                                                                                               |
|            | : | 20.0 Liters                                                                                              |
| Shelf Life | : | 12 Months (Unopened)                                                                                     |
| Storage    | : | Cool, dry and well ventilated area away from heat and direct sun light. Lid must be keep tightly closed. |



**COLY COATING SDN BHD**

1 No. 421-B Batu 14, Jalan Kapar, 42200 Kapar Klang, Selangor Darul Ehsan

Tel.603 3259 3905; Fax. 603 3259 3904; e-mail [sales@colycoating.com.my](mailto:sales@colycoating.com.my); Web-site : [www.colycoating.com.my](http://www.colycoating.com.my)

### Surface Preparation

All surface to be coated should be clean, dry and free from contamination as in accordance to ISO 8504. Oil and grease must be removed by solvent cleaning as in accordance to SSPC-SP1.

Abrasive blast clean to Sa 2.5 (ISO 8501) or SSPC-SP6 or power toll clean to St.3 is recommended. If oxidation has occurred between blasting and application, the surface should be reblasted to specified visual standard. A surface profile of 25 to 50 microns is recommended.

### Recommended Painting System

| Painting System | Product                                                      |        |
|-----------------|--------------------------------------------------------------|--------|
| Primer          | : ColyHeatshield 960 or Recommended ColyIOZ range of product | 1 Coat |
| Intermediate    | : ColyHeatshield 960                                         | 1 Coat |
| Finishing       | : ColyHeatshield 960                                         | 1 Coat |

### Preapplication Conditions

- 1) The surface temperature should be 3°C above the dew point and should not exceed 50°C.
- 2) The relative humidity should be between 60% and 85%.
- 3) Paint application shall not commence when there is a likelihood of an unfavourable change in weather condition within 2 hours after painting.
- 4) Stir paint with a mechanical stirrer until uniformly mixed prior to application

### Product Limitations

ColyHeatshield 960 is not recommended for continuous immersion. Excessive thickness or over application of ColyHeatshield 960 can lead to improper curing of paint film which will require complete removal of the affected areas via abrasive blasting. Coating will only full cure upon exposure to minimum of 150 °C for 2 hours. Product should not be exposed to temperatures above 600 °C. Best results in terms of sheen and color appearance will always be obtained by conventional spray applications. Appearance may vary depending on application method used. Using mixture of application methods is not recommended.

### Safety Precaution

This product is flammable and must be kept away from any source of ignition. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately. Keep out of reach of children.

**Disclaimer:** The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, since we cannot anticipate or control the many conditions under which our product by be used, we can only guarantee the quality of the product itself. We reserve the right to alter the given data without prior notice.



**COLY COAITNG SDN BHD**

1 No. 421-B Batu 14, Jalan Kapar, 42200 Kapar Klang, Selangor Darul Ehsan

Tel.603 3259 3905; Fax. 603 3259 3904; e-mail [sales@colycoating.com.my](mailto:sales@colycoating.com.my) ; Web-site : [www.colycoating.com.my](http://www.colycoating.com.my)