

# SF CERAMIC 800

## DESCRIPTION

Two-component, moisture-curing zinc (ethyl) silicate anticorrosive primer with outstanding heat resistance

## PRINCIPAL CHARACTERISTICS

- Anticorrosive primer for structural steel
- Excellent thermal stability minimizes heat damage during hot work procedures
- Suitable as a first coat primer in various paint systems based on unsaponifiable binders
- Compatible with a wide range of products to be overcoated

## COLOR AND GLOSS LEVEL

- Gray
- Flat

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.4 kg/l (11.7 lb/US gal)
Volume solids	30 ± 2%
Recommended dry film thickness	15 - 35 µm (0.6 - 1.4 mils)
Theoretical spreading rate	20.0 m <sup>2</sup> /l for 15 µm (802 ft <sup>2</sup> /US gal for 0.6 mils) 8.6 m <sup>2</sup> /l for 35 µm (344 ft <sup>2</sup> /US gal for 1.4 mils)
Dry to touch	5 minutes
Overcoating Interval	Minimum: 24 hours Maximum: Unlimited
Shelf life	Paste: at least 12 months when stored cool and dry Binder: at least 9 months when stored cool and dry

Note: See ADDITIONAL DATA – Spreading rate and film thickness

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

### Substrate conditions

- Steel; shot blast cleaned to ISO-Sa2½, blasting profile 30 – 75 µm (1.2 – 3 mils)
- Steel with approved zinc silicate shop primer; sweep blasted to SPSS-Ss or SPSS-Pt2
- Weathered galvanized steel; blast cleaned to remove rust, to roughen the surface and to remove any zinc salts which might be present

### Substrate temperature

- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point



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## INSTRUCTIONS FOR USE

### **Mixing ratio by volume: binder to paste 60:40**

- Mix thoroughly by a mechanical mixer before application
  - Agitate continuously during application
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### **Induction time**

None

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### **Pot life**

12 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

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### **Air spray**

#### **Recommended thinner**

THINNER 90-53

#### **Volume of thinner**

0 - 3%, depending on required thickness and application conditions

#### **Nozzle pressure**

0.3 MPa (approx. 3 Bar; 44 p.s.i.)

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### **Airless spray**

#### **Recommended thinner**

THINNER 90-53

#### **Volume of thinner**

0 - 3%, depending on required thickness and application conditions

#### **Nozzle orifice**

Approx. 0.43 – 0.48 mm (0.017 – 0.019 in)

#### **Nozzle pressure**

8.0 - 12.0 MPa (approx. 80 - 120 bar; 1161 - 1741 p.s.i.)

Note: A dedicated pump for a zinc silicate coating with constant agitation must be used

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### **Brush/roller**

- Only for touch-up and spot repair
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## Cleaning solvent

THINNER 90-53

## ADDITIONAL DATA

Spreading rate and film thickness	
DFT	Theoretical spreading rate
15 µm (0.6 mils)	20.0 m <sup>2</sup> /l (802 ft <sup>2</sup> /US gal)
35 µm (1.4 mils)	8.6 m <sup>2</sup> /l (344 ft <sup>2</sup> /US gal)

Pot life (at application viscosity)	
Mixed product temperature	Pot life
0°C (32°F)	24 hours
10°C (50°F)	16 hours
20°C (68°F)	12 hours
30°C (86°F)	6 hours

## SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets

## WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

## REFERENCES

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|--|-------------------|------|
| • EXPLANATION TO PRODUCT DATA SHEETS   | INFORMATION SHEET | 1411 |
| • SAFETY INDICATIONS   | INFORMATION SHEET | 1430 |
| • SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD | INFORMATION SHEET | 1431 |

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