

Technical Data

Solvalitt



Product description

Solvalitt is a heat resisting paint based on silicone acrylic binder.

Recommended use

To be used as a topcoat on items exposed to high temperatures (up to 600°C) in combination with Zinc Silicate coatings, maximum 400°C.

Film thickness and spreading rate

| Aluminium | Minimum | Maximum | Typical |
|--|---------|---------|---------|
| Film thickness, dry (µm) | 20 | 30 | 20 |
| Film thickness, wet (µm) | 55 | 80 | 55 |
| Theoretical spreading rate (m ² /l) | 19 | 12,7 | 19 |

| Colours | Minimum | Maximum | Typical |
|--|---------|---------|---------|
| Film thickness, dry (µm) | 20 | 30 | 20 |
| Film thickness, wet (µm) | 50 | 70 | 50 |
| Theoretical spreading rate (m ² /l) | 21 | 14 | 21 |

Physical properties

| | |
|------------------------|--|
| Colour | Aluminium, Green, Black, White |
| Solids (vol %)* | 40 ± 2 Aluminium 43 ± 2 Colours |
| Flash point | 26°C (Setaflash) |
| VOC | Aluminium 4,43 lbs/gal (530 gms/ltr) USA-EPA Method 24 500 gms/ltr UK-PG6/23(97). Appendix 3 Colours 4,34 lbs/gal (520 gms/ltr) USA-EPA Method 24 490 gms/ltr UK-PG6/23(97). Appendix 3 |
| Gloss | Aluminium sheen/Flat |
| Flexibility | Good |

*Measured according to ISO 3233:1998 (E)

Surface preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

Bare steel

Cleanliness: Blast cleaning to Sa 2½ (ISO 8501-1:2007). Roughness: using abrasives suitable to achieve grade Fine to Medium G (30-85 µm, Ry5) (ISO 8503-2)

Coated surfaces

Cured and clean zinc silicate primer.

Other surfaces

The coating may be used on other substrates. Please contact your local Jotun office for more information.

Condition during application

The temperature of the substrate should be minimum 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure correct drying.

Application methods

| | |
|---------------|--|
| Spray | Use airless spray or conventional spray |
| Brush | Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness. |
| Roller | May be used for small areas but not recommended for first primer coat, however when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness. |

Application data

| | |
|-----------------------------------|---|
| Mixing ratio (volume) | Single pack. |
| Thinner/Cleaner | Jotun Thinner No. 7 |
| Guiding data airless spray | |
| Pressure at nozzle | 15 MPa (150 kp/cm ² , 2100 psi). |
| Nozzle tip | 0.38-0.48 mm (0.015-0.021") |
| Spray angle | 40-60° |
| Filter | Check to ensure that filters are clean. |

Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- * Good ventilation (Outdoor exposure or free circulation of air)
- * Typical film thickness
- * One coat on top of inert substrate

| Substrate temperature | 5°C | 10°C | 23°C | 40°C |
|--|------------|-------------|-------------|-------------|
| Surface dry | 60 min | 45 min | 30 min | 15 min |
| Through dry | 4 h | 3 h | 2 h | 1,5 h |
| Dry to recoat, minimum | 8 h | 5 h | 4 h | 3 h |
| Dry to recoat, maximum ¹ | | | | |

1. The surface should be dry and free from any contamination prior to application of the subsequent coat.

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

Typical paint system

| | | |
|------------------------------------|----------------------|-----------------------------|
| Resist 78, Resist 86 or Resist GTI | 1 x 75 µm | (Dry Film Thickness) |
| Solvalitt | 1 - 2 x 20 µm | (Dry Film Thickness) |
| or | | |
| Solvalitt | 2 - 3 x 20 µm | (Dry Film Thickness) |

Other systems may be specified, depending on area of use

Storage

The product must be stored below 25°C and in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling

SHELF LIFE: 24 months at 23°C. Higher temperatures during storage may reduce the shelf life and may lead to gelling in the tin. Handle with care. Stir well before use.

Packing size

5 litre container

Packing may vary from country to country according to local requirements.

Health and safety

Please observe the precautionary notices displayed on the container. 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.

For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

DISCLAIMER

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

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