

Technical Data

SOLVALITT MIDTHERM



Product description

Solvalitt Midtherm is a mid temperature resisting paint based on acrylic modified silicone resins.

Recommended use

To be applied over steel substrate or over inorganic zinc silicate primer as topcoat for steelwork operating at temperature up to 250°C.

Film thickness and spreading rate

Aluminium	Minimum	Maximum	Typical
Film thickness, dry (µm)	20	40	30
Film thickness, wet (µm)	65	125	95
Theoretical spreading rate (m ² /l)	16	8	10,7

Colours	Minimum	Maximum	Typical
Film thickness, dry (µm)	20	40	30
Film thickness, wet (µm)	50	100	75
Theoretical spreading rate (m ² /l)	20	10	13,3

Physical properties

Colour	Aluminium, Red, White
Solids (vol %)*	32 ± 2 Aluminium 40 ± 2 Colours
Flash point	27°C ± 2
Gloss	Aluminium sheen/Flat
Flexibility	Good
Dry heat resistant	
Intermittent	Very good
Extended	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 8501-1:1988). 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.

Application data

Mixing ratio (volume) Single pack

Thinner/Cleaner Jotun Thinner No. 7

Guiding data airless spray

Pressure at nozzle 15 MPa min (150 kp/cm², 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.

Note It is recommended to thin the paint by 5% with Jotun Thinner No. 7 when using conventional spray.

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	45 min	30 min	15 min	10 min
Through dry	4 h	3 h	2 h	1 h
Dry to recoat, minimum	6 h	3 h	2 h	1 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 microns	(Dry film thickness)
Solvalitt Midtherm	1 X 30 microns	(Dry film Thickness)
or		
Solvalitt Midtherm	2 X 30 microns	(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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