

Technical Data

Chemflake CV



Product description

Chemflake CV (Conductive Version) is a glass flake reinforced high build vinyl ester coating with high conductivity.

Recommended use

Steel in aggressive environments. For gasoline or bulk crude tanks where anti-static coating is required.

Film thickness and spreading rate

| | Minimum | Maximum | Typical |
|--|---------|---------|---------|
| Film thickness, dry (μm) | 500 | 800 | 600 |
| Film thickness, wet (μm) | 520 | 830 | 625 |
| Theoretical spreading rate (m^2/l) | 1,9 | 1,4 | 1,6 |

Comments

The practical spreading rate may vary from the theoretical dependent upon film thickness and the ambient temperature, ventilation/wind during the application.

Physical properties

| | |
|---------------------|--------------------------------------|
| Colour | Black |
| Solids (vol %)* | 96 \pm 2 |
| Flash point | 34°C \pm 2 (Setaflash) |
| VOC | 36 gms/ltr UK-PG6/23(97). Appendix 3 |
| Gloss | Semiflat |
| Water resistance | Excellent |
| Abrasion resistance | Excellent |
| Solvent resistance | Excellent |
| Chemical resistance | Excellent |
| Flexibility | Limited |

*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 min. Sa 2 ½ (ISO 8501 1:2007). Roughness: use suitable abrasives to achieve Grade Coarse G (75 - 130 µm, Ry5) (ISO 8503-2).

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 15°C and at least 3°C above the dew point of the air. The temperature and the relative humidity should be measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

Application methods

Spray Use airless 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)

Ratios and order of addition:

Add the various ingredients while stirring in the following properties and order, based on 16 litres of CHEMFLAKE CV base component.

1: 2 vol% (320 ml) Norpol Accelerator 9802

2: 0.6 vol% (100 ml) Norpol Accelerator 9826

1. and 2. must be properly mixed in before adding:

3: 2.5 vol% (400 ml) Norpol Peroxide 1 or 11

Mechanical stirring in min. 1 minute is necessary.

The temperature in CHEMFLAKE CV should preferably not exceed 25° C, as pot life may be drastically reduced if exceeded.

In the temperature range 25 - 30° C, one may overcome the problem by first adding Norpol Inhibitor 9853 (max 0.4 vol% - 60 ml per 16 l CHEMFLAKE CV), stir well and then continue with 1, 2 and 3 as described above.

Approved alternatives to Norpol Peroxides can be used. Please contact Jotun, Technical Service Department.

WARNING!.....Norpol Accelerator 9802 and Norpol Peroxide must never be mixed directly with each other. Be sure that steel temperature is equal or higher than paint temperature.

Pot life (23°C)

35 minutes (reduced at higher temp.)

Thinner

Styrene. Max 5% Styrene.

Cleaner

Jotun Thinner No. 17/23/27.

Guiding data airless spray

Pressure at nozzle

15 - 25 MPa min (150 - 280 kp/cm², 2100 - 4000 psi.)

Nozzle tip

0.86 - 1.14 mm (0.034 - 0.045")

Spray angle

40 - 80°

Filter

To be removed.

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 | 15°C | 23°C | 40°C |
|-------------------------------------|------|------|------|
| Surface dry | 8 h | 4 h | 2 h |
| Through dry | 8 h | 4 h | 2 h |
| Cured | 8 d | 4 d | 2 d |
| Dry to recoat, minimum | 8 h | 4 h | 2 h |
| Dry to recoat, maximum ¹ | 1 d | 1 d | 1 d |

1. The surface should be dry and free from any contamination prior to application. If the maximum dry to recoat time is exceeded, please contact Jotun for advice.

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

Chemflake CV 2 x 600 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.

SHELF LIFE: 3 months, at 23°C, subject to re-inspection thereafter. Shelf life very much depends on temperature. Lower temperatures (if possible below freezing point) will lengthen the shelf life considerably, while high temperature may lead to gelling in the tin.

Accelerator and peroxide must be kept in their original containers. No other materials shall be stored in the same room as peroxides.

Always consult your local/national authorities for storing peroxides!

Handling

Handle peroxide with care. Avoid that it comes in contact with flameable substances. Accelerator and peroxide must never be mixed directly together. Before handling, see safety data sheet for accelerator and peroxide.

Packing size

20 litre unit: 16 litres in a 20 litre container.

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 can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

If there is any inconsistency in the text the English (UK) version will prevail.

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