

# Technical Data

## Muki Z 2001



### Product description

Muki Z 2001 is a two-pack, modified low zinc ethyl silicate shopprimer. Designed to utilize optimum productivity in connection with advanced welding technology (MIG/ MAG/G-FCAW) giving reduced weld defects/backburning. Muki Z 2001 is good in corrosion protection of steel during normal storage and fabrication, and reduces exposure to fumes during welding and cutting compared with medium to high zinc shopprimers.

### Recommended use

To be used as a preconstruction primer on blast-cleaned steel surfaces in automatic shop-priming plants to protect steel during transport, storage and production.

For application on steel for water ballast tanks in accordance with PSPC (IMO Res. MSC 82/W), cleanliness must be: Dust - Min. rating 1, sizes 3,4,5 (ISO 8502-3:1993) and soluble salt - Maximum 50 mg/m<sup>2</sup> (ISO 8502-6 and- 9:1998).

### Film thickness and spreading rate

	Minimum	Maximum
Film thickness, dry (µm)	15	20
Film thickness, wet (µm)	55	70
Theoretical spreading rate (m <sup>2</sup> /l)	18,7	14

### Comments

Dry film thickness measured on a smooth test panel.

### Physical properties

Colour	Green, Grey, Red
Solids (vol %)*	28 ± 2
Flash point	14°C ± 2 (Setaflash)
VOC	600 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Flat
Water resistance	Very good
Abrasion resistance	Excellent
Solvent resistance	Excellent
Chemical resistance	Excellent within pH range 6-10.
Flexibility	Limited

\*Measured according to ISO 3233:1998 (E)

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## 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 S/G (30-85 µm, Ry5) (ISO 8503-2)

### Other surfaces

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

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## Condition during application

The temperature of the substrate should be minimum at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Relative humidity in the air should not exceed 85% prior to application. Recommended steel temperature: 30-40°C.

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## Application methods

<b>Spray</b>	Use airless spray or conventional spray
<b>Brush</b>	Recommended for touch-up purposes.

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## Application data

<b>Mixing ratio (volume)</b>	10:6,75
<b>Mixing</b>	10 parts by volume Comp. A (Silicate solution) to be thoroughly mixed with 6,75 parts by volume Muki Z 2001, Comp. B (Zinc paste).
<b>Pot life (23°C)</b>	24 hours. (Reduced at higher temperatures).
<b>Thinner/Cleaner</b>	Jotun Thinner No. 4/25 (No. 4 - Fast Evaporation) - (No. 25 - Slow evaporation).
<b>Guiding data airless spray</b>	
<b>Pressure at nozzle</b>	5 - 7 MPa (50 - 70 kp/cm <sup>2</sup> , 700 - 900 psi).
<b>Nozzle tip</b>	0.38 - 0.58 mm (0.015 - 0.023").
<b>Spray angle</b>	40 - 95°

<b>Note</b>	<p>* Proper routines for cleaning and maintenance of the priming unit are necessary to achieve high productivity and uniform quality. Before start of work and after finishing with Muki Z 2001 it is recommended to circulate Jotun Thinner No. 4 or No. 25 through the entire spraying equipment for some minutes. During application it is necessary to use a mechanical stirrer.</p> <p>* The Comp. B (Zinc paste) must be stirred continuously while the Comp. A (Silicate solution) is added.</p>
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## 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.**

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### 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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