

Muki Z WB-50

Product description

This is a two component inorganic medium zinc waterborne chemically curing zinc alkali silicate coating. It is a shop primer designed for excellent welding and cutting speed, giving reduced weld porosity and back burning. It is fast drying and has good abrasion resistance making it suitable for stacking shortly after application. Can be used as temporary primer in a new construction phase or as primer in a complete coating system in atmospheric and immersed environments. Suitable for properly prepared carbon steel substrates and recommended to be applied in an automated shop priming line. Compatible with advanced welding technologies including MIG, MAG and G-FCAW.

Typical use

Marine:

Suitable as shop primer for entire vessels.

Protective:

Suitable for structural steel and piping to be exposed to corrosive environments up to very high and immersed. Recommended for offshore environments, refineries, power plants, bridges, buildings, mining equipment and general structural steel.

Colours

grey

Product data

Property	Test/Standard	Description
Solids by volume	OCCA Monograph No. 4	62 ± 2 %
Gloss level (GU 60 °)	ISO 2813	matt (0-35)
Density	calculated	2,4 kg/l
VOC-EU	IED (2010/75/EU) (calculated)	0 g/l

The provided data is typical for factory produced products, subject to slight variation depending on colour. All data is valid for mixed paint.

Gloss description: According to Jotun Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

Date of issue: 30 June 2017 Page: 1/4



Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Surface preparation summary table

	Surface preparation	
Substrate	Minimum	Recommended
Carbon steel	Sa 2½ (ISO 8501-1)	Sa 2½ (ISO 8501-1)

Application

Application methods

The product can be applied by

Spray: Use a specially designed conventional spray/HVLP. Airless spraying is not recommended.

Product mixing ratio (by volume)

 Muki Z WB-50 Comp A
 4,67 part(s)

 Muki Z WB-50 Comp B
 1 part(s)

Thinner/Cleaning solvent

Thinner: Water

Do not add thinner.

Guiding data for air spray

Nozzle tip (inch/1000): 15-22

Pressure at nozzle (minimum): 3.8 bar/30 psi

Drying and Curing time

Substrate temperature	23 °C 40 °C
Surface (touch) dry	1 min 30 sec
Walk-on-dry	1 min 30 sec
Dried/cured for service	2 h 1 h

Drying and curing times are determined under controlled temperatures and relative humidity below $85\,\%$, and at average of the DFT range for the product.

Date of issue: 30 June 2017 Page: 2/4

Technical Data Sheet Muki Z WB-50



Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

Induction time and Pot life

Paint temperature	23 °C
Pot life	6 h

Heat resistance

Temperature

	Continuous	Peak	
Dry, atmospheric	400 °C	-	
Immersed, sea water	50 °C	-	

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

Note that the coating will be resistant to various immersion temperatures depending on the specific chemical and whether immersion is constant or intermittent. Heat resistance is influenced by the total coating system. If used as part of a system, ensure all coatings in the system have similar heat resistance.

Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Jotun for specific system recommendation.

Subsequent coat: epoxy, epoxy mastic, zinc epoxy, acrylic

Packaging (typical)

	Volume	Size of containers	
	(litres)	(litres)	
Muki Z WB-50 Comp A	15.14	20	
Muki Z WB-50 Comp B	3.24	5	

The volume stated is for factory made colours. Note that local variants in pack size and filled volumes can vary due to local regulations.

Storage

Date of issue: 30 June 2017 Page: 3/4

Technical Data Sheet Muki Z WB-50



The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 23 °C

Muki Z WB-50 Comp A 12 month(s)
Muki Z WB-50 Comp B 24 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray 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.

Colour variation

When applicable, products primarily meant for use as primers or antifoulings may have slight colour variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

Date of issue: 30 June 2017 Page: 4/4