



RustoBlock ZS 1218

Two Component Inorganic Zinc Primer (Zinc Silicate) for Room & High Temperature Application for Metal

INTRODUCTION:

RustoBlock™ ZS1218 is the primer of choice in highly corrosive environments. This product was formulated to withstand many different environments, when top coated with **Multicoat®** high quality topcoats. We can guarantee a high performance system whether you choose silicon, an epoxy or urethane topcoat. Recommended to be applied under a wide variety of conditions and to a vast array of steel structures including, chemical plants, oil platforms, ships, power plants and many more.

FEATURES:

- Self-heals to resume protection if damaged
- It can be applied by conventional spray equipment or brush
- Quick drying properties
- Applicable in relative humidity between 20 to 95% and tolerant to slight surface moisture
- Good chemical resistance and remain unaffected by organic solvents
- Excellent adhesion due to chemical reaction to steel substrate
- Films are weldable at low dry film thickness
- Protect steel under insulation in the critical temperature range 0-66 °C
- Coating withstand temperature up to 425 °C
- Outstanding physical properties in terms of flexural strength, tensile strength, impact and abrasion resistance
- Use for the protection of metal structures in aggressive environments e.g. internal and external protection of tanks, steel structures including, chemical plants, oil platforms, ships, power plants and many more.

USES:

Because of excellent corrosion protection offered by **RustoBlock™ ZS1218** to steel, it finds applications in various critical fields. Some of the areas are given below:

1. Bridges: Bridges like off-shore structures are highly vulnerable to corrosion.
2. Harbor Structures: The corrosion conditions encountered by off-shore petroleum platform are most severe. Many hundreds of drilling and production structures



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- need long term corrosion protection.
3. Nuclear Power Facilities: The steel surface within reactor building requires coatings with 40 years of expected life. Coating based on **RustoBlock™ ZS1218** is unaffected by γ -rays or neutron bombardment.
 4. Tank Coatings: One of the major uses has been in the lining of ship tankers, primarily for transporting refined fuel. Tanks carrying petroleum products, crude oils, lubricants, edible oils and solvents like ketone, esters, chlorinate hydrocarbons are to be coating with **RustoBlock™ ZS1218**.

TECHNICAL DATA:

Finish & Colour	Flat & Gray
Gloss Level	Matt
Volume Solid	71%
Method of application	Airless spray, air spray, roller, brush
Coverage, m ² /kg	9.12 for 25 mm thickness
Temperature Resistance, °C	425
Typical Thickness	25 to 50 microns

APPLICATION DATA:

PREPARATION

This product should be applied to surfaces prepared by abrasive blast cleaning to SA 2½ in accordance with International Standard ISO 8501:2007 or SSPC-SP6. If oxidation has occurred between blasting and application of Inorganic Zinc Primer, the surface should be re-blasted to the specified visual standard. Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

A blast profile of 40-75 microns is recommended

Thinner: MultiThin series, use thinner for equipment cleaning.

Thinning: Maximum 5%.



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MIXING

Product is supplied in two packs. Component A is liquid and Component B is zinc powder. Component A shall be stirred well before use. Pour Component B slowly and stir during mechanical mixing. After mixing pass through 60# sieve before use.

APPLICATION

RustoBlock ZS1218 should be applied at approximately 50 micron per coat after thorough mixing.

Spray: Use airless or air spray.

Brush: Recommended for touch and small area. Care should be taken to get uniform thickness.

Cleaning: Clean all equipment immediately after use with suitable product of Multichem.

HEAT RESISTANCE

TEMPERATURE		
Dry, Atmospheric	Continuous	Peak
	400 °C	540 °C

STORAGE:

Store in dry, frost-free conditions at moderate temperature not **greater** than 25 °C.

PACKAGING

Pack Size: 10/ 20 Kg

SAFETY DATA:

This product is intended for use only by professional applicators in industrial situations in accordance with



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the advice given on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which Multichem has provided to its customers.

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

Please consult our technical department for further information if in doubt.

WARRANTY

Multichem warrants **RustoBlock ZS1218** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of **RustoBlock ZS1218**.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **RustoBlock ZS1218**.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.



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