Z-Guard is a moderately-low-viscosity, water-based paint that yields a relatively high hardness coating that is 86% Zirconium Oxide [Unstabilized] after heating >600 C (>1100 F). Easy-to-use coating that is good for all atmospheres to 1550 C (2822 F).

**Key Attributes**

- Forms Tough/Abrasion-Resistant Layer on Most Substrates -- Sintered-Fused-Silica; Fiber Blankets, Boards, Felts; Porous Bricks; Pulp-Molded Ceramics
- Low Electrical Conductivity
- Very Low Thermal Conductivity
- Applied Like House paint

**Ideal Use**

- Surface Sealant, Stopping Dusting/Spalling
- Protective Layer for Fibrous Surfaces
- Low-Thermal-Conductivity Layer

**Use Notes**

1. Resuspend if needed. Can dilute with water.
2. Clean surfaces to be painted of any oils dirt, scale, etc.
3. Apply one thin layer by brush or spray like ordinary house paint. Apply additional layers if needed, after drying prior layer.
4. Allow to thoroughly dry before use.

**Specifications**

- **Active Ingredient**: ZrO$_2^*$
- **Max Use Temperature**
  - Air/Inert/Vac (no C) 2822 F / 1550 C
  - Vac (with C present) NOT RECOMMENDED
- **Use Atmosphere**: All
- **Fired Composition**: 86% ZrO$_2$
- **Liquid Carrier**: Water/Ethanol
- **Binder Phase**: Al$_2$O$_3$-P$_2$O$_5$
- **Brookfield Viscosity (cps)**: 115-310 @2/60
- **Specific Gravity**: 2.2
- **Color**: Cream
- **Shelf Life (months)**: 3-6
- **Coverage (ft$^2$/gal)**: 100 to 400
- **Coating pH**: 3
- **H F R Ratings**: 1-1-0
- **Substrate Use**: All
- **Other**: * Contains no stabilizer oxides & no silica

**Sizes and colors**

Z-Guard is a cream-colored paint.

**Standard Size**: 1-gallon pail

---

**CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.**

ZYP Coatings, Inc. (ZYP) makes no warranties, express or implied, including the warranty of merchantability or fitness for a particular service. Product is for industrial/commercial use only. Users should determine suitability for their use. In no event will ZYP be liable for any direct, indirect, incidental, special or consequential damages or losses including, but not limited to loss of profits, in any way related to this product regardless of the legal theory asserted.