



120 Valley Court  
Oak Ridge, TN 37830  
Ph: 865-482-5717  
FAX: 865-482-1281  
zypcoatings.com

# Zircwash

## Unstabilized Zirconia Water-Based Concentrate/Coating

Zircwash is a water-based paint that yields a low-to-medium-hardness coating that is 97% Zirconium Oxide [Unstabilized] and 3% Aluminum Oxide after heating to >600 C (>1112 F). Easy-to-use coating that can be used to 2000 C (3632 F). Since the coating CONTAINS NO SILICA, Zircwash is far superior to Zircon (Zirconium Silicate) coatings for melting/casting operations.

### Key Attributes

- Resistant to Many Molten Metals
- Silica-Free
- Very Low Thermal Conductivity
- Applied Like House paint
- Safe, Water-Based, No VOC's

### Ideal Use

- Crucible/Mold Coatings for High-Purity Molten Ferrous and Non-Ferrous Metals
- Low-Thermal-Conductivity Layer
- Anti-stick/Reaction-Barrier 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.

### Safety Information

- Consult SDS before use.
- Avoid breathing of spray/vapors.
- For Industrial Use only.



### Specifications

|                                 |  |
|---------------------------------|--|
| Active Ingredient               | ZrO <sub>2</sub>   |
| Max Use Temperature             | Air/Inert/Vac (no C) 3632 F / 2000 C<br>Vac (with C present) 2552 F / 1400 C |
| Use Atmosphere                  | All  |
| Fired Composition               | 97% ZrO <sub>2</sub> - 3% Al <sub>2</sub> O <sub>3</sub>                     |
| Liquid Carrier                  | Water  |
| Binder Phase                    | Al <sub>2</sub> O <sub>3</sub>   |
| Brookfield Viscosity (cps)      | 2450-3850@4/60   |
| Specific Gravity                | 2.2  |
| Color                           | Cream  |
| Shelf Life (months)             | >12  |
| Coverage (ft <sup>2</sup> /gal) | 100 to 400   |
| Coating pH                      | 2-3  |
| H F R Ratings                   | 1-0-0  |
| Substrate Use                   | All  |
| Other:                          | * Contains no stabilizer oxides & no Silica                                  |

### Sizes and colors

Zircwash is a cream-colored paint.

Standard Size: 1-Gal. pail; 5-Gal. pail

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

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