



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

Zypcoat® ALT

Aluminum Titanate Coating

Zypcoat® ALT is an economical water-based Aluminum Titanate (ALT) coating that is non-wetting and non-reactive with aluminum and aluminum-based alloys. The high erosion resistance and high use temperature (> 1400 C) make this a versatile and tough coating for a multitude of applications. This includes protecting refractories during melting, processing and transport of alloys that are highly reactive and/or possess melting temperatures >700-800 C. The coating can be diluted with water as desired and works well on ceramic and metal substrates.

Key Attributes

- Non-reactive and non-wetting with molten aluminum and its alloys
- Resistant to erosion and oxidation
- High use temperature: > 1400 C
- Stable in contact with highly reactive alloys
- Can be diluted with water as desired

Ideal Use

- All metal transport components
- Applications that require temperatures greater than typical aluminum processing
- Applications that require a stable, non-reactive barrier coating
- Specialty aluminum alloys requiring very-high purity and zero Boron levels
- Sacrificial coating for Aluminum Titanate components, protecting them and extending their lifetime
- Piston alloy (or "sticky" alloy) processing where messy oil-based coatings are now used.

Use Notes

1. Re-suspend if needed.
2. Use full strength, or dilute as desired with water.
3. Clean surfaces of any oils, dirt, scale, etc.
4. Apply 1-3 layers by brush, dip, or spray like ordinary house paint, drying after each layer.
5. Allow to thoroughly dry before use.

Safety Information

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



Specifications

Active Ingredient	Aluminum Titanate, Al ₂ TiO ₅
Max Use Temperature	1400 C
Use Atmosphere	All
Fired Composition	100% Al ₂ TiO ₅
Liquid Carrier	Water
Binder Phase	Al ₂ TiO ₅
Active Ingredient Level	Fully Loaded
Brookfield Viscosity (cps)	980 @3/60
Specific Gravity	1.2
Color	Gray*
Shelf Life (months)	>12
Coverage (ft ² /gal)	100 to 400
Coating pH	4
H F R Ratings	1-0-0
Substrate Use	All

Sizes and colors

Zypcoat ALT is a gray colored paint.

* Very small amount of Graphite added for visibility

Standard Size: wide-mouth 1 gallon pail.

Also available in 5 gallon pail upon request.

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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