

# TROYSAN® ZPT38

## Dry-Film Preservative

Paints & Coatings/US

EPA Registration No.: 5383-195

Troysan® ZPT38 is a highly effective dry-film preservative with proven effectiveness in exterior and particularly interior coatings. The preservative has efficacy against a broad range of algal and bacterial species, as well as fungal species.

### Application & Use

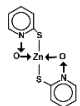
Troysan® ZPT38 is suitable for use in interior aqueous paints and coatings, in addition to exterior use. Troysan® ZPT38 also provides protection of adhesives and caulks & sealants, as well as other industrial coatings. Troysan® ZPT38 is compatible in a wide range of formulations, and is recommended for use in aqueous systems. The active ingredient in Troysan® ZPT38 has very low solubility in water, which results in excellent resistance to leaching for long-lasting performance.

This product is suitable for systems with a pH of 4 - 10 and at a temperature up to Up to 100°C.

### Product Highlights

- Broad-spectrum protection
- Efficacy against algae, bacteria, & fungi
- Resistance to leaching
- Broad formulation compatibility
- Cost-effective
- Excellent thermal & pH stability

### Active Substance

38.0%	Zinc, 2-pyridinethiol-1-oxide	 <p><b>Zinc Pyriothione</b> C<sub>10</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>S<sub>2</sub>Zn</p>
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### Physical Properties

The following are typical properties of Troysan® ZPT38; they are not to be considered product specifications.

<b>Appearance:</b>	Off-white dispersion
<b>Specific Gravity, 25°C:</b>	1.4
<b>pH (as is)</b>	7 - 9
<b>Solubility</b>	Soluble in cold water and hot water
<b>pH (5% in water)</b>	8
<b>Viscosity, 25°C (Brookfield spindle)</b>	3500 cps

### Formulating Considerations

Troysan® ZPT38 should be added with good agitation or mixing at the end of the manufacturing cycle after pH adjustments have been made (not during the grind). It is compatible with most known aqueous systems. In rare circumstances, the active ingredient in Troysan® ZPT38 can cause discoloration of coatings, particularly in the presence of transition metals (e.g., iron, copper). Troysan® ZPT38 is not fully stable when exposed to DBNPA. The use of DBNPA should be limited to 100 ppm in formulations that contain Troysan® ZPT38 as the active

conjunction with CMIT or Bronopol containing preservatives as it can lead to their degradation. For formulations containing Troysan® ZPT38, use of BIT, MIT, or formaldehyde adduct in-can preservatives is advised.

Due to various possibilities of application and different methods of processing, it is advised to check compatibility in the development of new products. Contact your Arxada representative for assistance.

## Function/Activity

The following suggested use levels are based on laboratory tests and are typical for the applications indicated. The actual level required for your system is formulation specific. The selection of the individual components of the formulation, the substrate to be coated, and the environment in which the coating will be exposed all have an influence on the amount of protection needed. Suggested use levels are reported as percentage of the end-use product.

## Paints & Coatings

Troysan® ZPT38 has been shown to be highly effective against a variety of bacterial and fungal species in water-based latex interior residential paints, as well as other types of aqueous architectural and industrial paints and coatings. In humid areas where microbial growth is a particularly severe problem, the upper application levels are suggested. Troysan® ZPT38 should be added with good agitation at the end of the manufacturing cycle.

## Adhesives

Troysan® ZPT38 exhibits excellent fungal control at the lower use levels, while bacterial control requires use levels at the upper end of the range.

## Caulks & Sealants

Troysan® ZPT38 exhibits excellent protection of caulks & sealants. The lower use levels are sufficient for fungal control, while bacterial control requires use levels at the upper end of the range.

Function	% Wt/Wt
Adhesives	0.19 - 0.61%
Caulks/Sealants	0.53 - 1.28%
Aqueous Latex and Other Types of Architectural and Industrial Non-Marine Paints and Coatings Including Powder Coatings	0.53 - 1.28%
Latex Paints	0.64 - 1.28

## Packaging

Troysan® ZPT38 is packaged in:

Package Type	Net Weight
Pail	55 lbs / 24.9 kg
Large Drum	441 lbs / 200 kg
Tote	2204 lbs / 999.7 kg

## Product Safety & Additional Information

For handling, storage, health, and safety information and disposal procedures, as well as additional information, please refer to the Safety Data Sheet (SDS) and label.



For more information visit:  
[www.arxada.com](http://www.arxada.com)

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