

# PROXEL® BD20

## Wet-State Preservative

Paints & Coatings/US

EPA Registration No.: 1258-1260

Proxel® BD20 is a broad spectrum biocide for the preservation of industrial water-based products against the spoilage from microorganisms.

### Application & Use

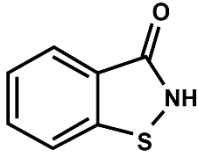
Proxel® BD20 is an aqueous dispersion of 1, 2-benzisothiazolin- 3-one (BIT) that is pH and temperature stable and can easily be incorporated into a wide range of industrial products. Proxel® BD20 is used as a microbiostat preservative for aqueous compositions such as lattices, emulsion paints and stains, oil-in-water emulsions, paints, water-based adhesives, paper coating compositions, casein/rosin dispersions, textile spin finish solutions, pesticide formulations, aqueous slurries, titanium dioxide slurries, construction materials, leather processing solutions, and for the preservation of fresh animal hides and skins.

This product is suitable for systems with a pH of 4-12 and at a temperature up to 100 °C.

### Product Highlights

- Free of VOC
- Free of Formadehyde
- Long lasting

### Active Substance

19.3%	1,2-Benzisothiazolin-3(2H)-one	BIT	 <p><b>BIT</b> C<sub>7</sub>H<sub>5</sub>NOS</p>
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### Physical Properties

The following are typical properties of Proxel® BD20; they are not to be considered product specifications.

<b>Appearance:</b>	Tan to fawn liquid
<b>Specific Gravity, 25°C:</b>	1.08 g / ml (approx.)
<b>pH (as is)</b>	6 - 8
<b>Viscosity, 25°C</b>	2000 cps (approx.) Brookfield
<b>Solubility</b>	Disperses at use dilutions
<b>Boiling Point</b>	100°C
<b>Density</b>	9.0 lb. / gal (approx.)

## Function/Activity

The concentration of Proxel® BD20 required to give protection depends on several factors. These include susceptibility of the system to microbiological degradation, the extent to which microorganism can gain access, the species involved, pH, temperature, and length of time for which protection is required. For protection against bacterial attack, a concentration within the range of 0.02 - 0.35% of this product is almost invariably sufficient. The control of mold growth, particularly on paste products of high solids content, may occasionally demand dosages above 0.25%. In dilute fluid systems, spoilage is usually controlled with dosages not greater than 0.09%.

Function	% Wt/Wt
Synthetic Polymer Emulsions	0.05 - 0.15
Water-based paints, stains and coatings	0.05 - 0.25
Water-based Adhesives	0.05 - 0.25
Paper Coating Compositions	0.05 - 0.15
Pigment Dispersions	0.15 - 0.25
Aqueous Mineral Slurries	0.04 - 0.25
Construction Materials	0.1 - 0.25
Leather Processing Solutions	0.05 - 0.25
Waxes and Buffing Compounds	0.05 - 0.15

## Formulating Considerations

Proxel® BD20 offers effective preservation in most aqueous compositions. The concentration required to give protection depends on several factors. These include the susceptibility of the system to microbiological degradation, the extent to which microorganisms can gain access, the species involved, pH, temperature, and length of time for which protection is required. The following concentrations are suggested; however, it is recommended that a testing program be undertaken to determine the most effective dose for your application. Testing should take into account chemical compatibility / stability, plant hygiene conditions, susceptibility of the product to contamination and typical organisms involved.

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.

## Packaging

For available pack sizing, please contact your Arxada representative.

## 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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