

The logo consists of the lowercase letters 'd', '2', and 'p' in a white, sans-serif font, positioned inside a large, light blue circle. Above this circle are three smaller, semi-transparent light blue circles of varying sizes, arranged in a cluster.

“Designed to Protect”

**Providing protection against microbes
and fungi**

*d₂p - Inside
Adding Value*



Product description

d₂p is an additive system that gives plastic products anti-microbial anti-virus and fungicidal performance.

d₂p is a masterbatch designed for specific applications. The unique nature, small particle-size and versatility of the active ingredient make it ideal for use in a wide range of polymer processes.

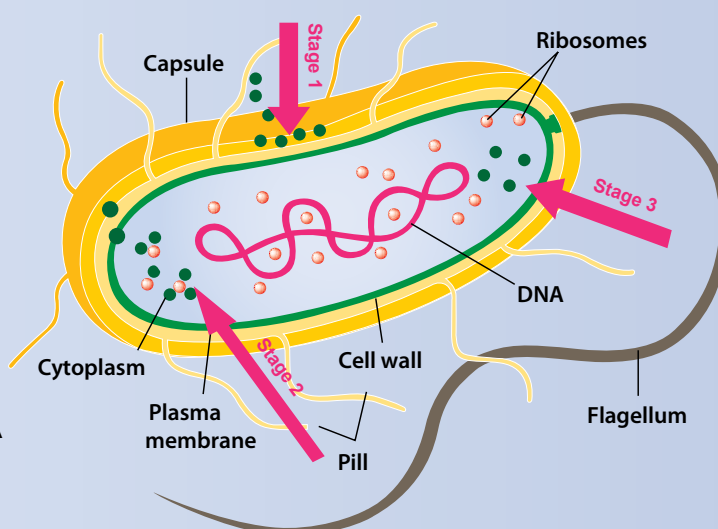
How does it work?

d₂p additives have a broad spectrum of activity. The mechanism follows 3 distinct stages.

Stage 1: The active ingredient in d₂p enters the micro-organism's membrane and causing damage and disruption to the cellular wall before penetrating the cell.

Stage 2: The active ingredient interacts with enzymes, deactivating vital molecules.

Stage 3: In the final stage it interacts with the DNA cell so that replication is prevented.



Technical information

General:

d₂p contains unique active ingredients which effectively inhibit although bacterial, viral and fungal growth. The controlled release of the active ingredients ensures long-term protection.

d₂p can be used in combination with d₂w, but it should be noted that the oxidative degradation phase will proceed as normal, biodegradation will be inhibited.

In use:

d₂p additives can be processed at conventional processing temperatures without losing their anti-bacterial properties. However, in order to ensure optimum performance, the processing condition requirements should be discussed with a d₂p technical representative to ensure that the appropriate additive for the application is used.

Recommended Addition Rates:

The recommended rate for d₂p is between 1% and 2% depending on applications and conditions.

Storage:

d₂p additives have been formulated for maximum stability in storage and in use. If storage or process conditions are required which do not conform to the recommendations it is important that they are discussed with a d₂p technical representative. Non-conformity can lead to inferior performance or visual imperfections such as film discolouration.

d₂p Anti-microbial in polymers

d₂p additive has been successfully incorporated into the following polymers:

- PE
- PVC
- PS
- PET
- PP



d₂p a successful protection against micro-organisms

d₂p is effective against Gram-positive bacteria, Gram-negative bacteria, mold and yeast.

d₂p applications

d₂p is suitable for the following applications:

- Plastic bags and film
- Plastic food packaging, containers and utensils
- Waste bins and refuse packaging
- Plastic products in medical facilities

Key benefits of using d₂p - Designed to Protect against:

- Cross contamination
- Healthcare and food industry infections
- Staining
- Discoloration
- Odour development



Symphony Environmental
"An environmental truth"

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