



# SKUNK PROTECTION FACTOR

## Skunk Protection Factor (SPF 2000)

SPF 2000 is a high performance, organic glass coating that combines translucent aesthetics with extreme ultraviolet light control. The coating itself is a water-based emulsion with very low VOC and is thermo-cured. It requires a relatively low curing temperature not achieved by many other coatings. The end result is a clear coating that blocks nearly all UV light. This technology is highly versatile and has many potential applications available.

**SPF 2000** was designed to be applied to clear or green glass beer containers as a solution to avoid becoming what is known as skunked or light-struck. To date, amber glass has been the only method for protecting beer from UV exposure. Many brew masters have opted to package their beer in clear or green glass for branding and product differentiation purposes. These glass containers unfortunately offer little to no protection against UV light. In spite of the numerous skunked beer experiences shared by many consumers, these beers are still sold in the same containers.

**What is skunked beer?** It refers to a specific type of beer spoilage where a beer's aroma mirrors that of a skunk's spray and is irreversible. When a beer is exposed to light, a photochemical reaction occurs with the hops which create strong and offensive sulfur compounds. These sulfur compounds are the same compounds found in a skunk's spray. Beer can easily be exposed to light in the distribution process, point of purchase store displays and shelves, as well as by the end consumer. Ever set your beer down outside for even a minute? It can happen in as little as 30 seconds in direct sunlight, several hours in indirect sunlight, and a few days under fluorescent lighting. Simply spray apply the SPF 2000 to the bottle that blocks nearly all of ultra-violet light, keeping the skunk out of your beer!

### Attributes:

- Clear Translucent Color
- Green & Environmentally Friendly
- Water-based with very low VOC
- Non-Toxic, Solvent Free & Non-Corrosive
- Relatively Low Thermo-cure Bonding Temperature
- Blocks Nearly All UV Light
- Unique & Highly Versatile
- Easy Application & Cleanup
- Superior Durability & Environmental Resistance
- Superb Label Adhesion
- Glass Substrate Remains Completely Recyclable
- Potential Increased Market Share & Differential Advantage



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