

Advanced Water Enhancement for Ground Suppression & Prescribed Burning

Overview

BLAZETAMER380™ is an uncolored, non toxic, non corrosive elastomer polymer-based water enhancer designed to improve the effectiveness of wildfire suppression and prescribed burning operations. When mixed with water, **BLAZETAMER380™** forms molecular bonds that allow water to coat fuels more effectively, reduce heat, and remain active longer than plain water.

BLAZETAMER380™ is engineered for direct fire suppression, wet line construction, and fuel treatment using standard ground equipment or aircraft, without requiring changes to existing tactics or equipment.

How BLAZETAMER380™ Works

When mixed with water, **BLAZETAMER380™** links hydrogen molecules of water, creating a flexible molecular network that:

- Improves heat absorption
- Reduces evaporation
- Penetrates fuels
- Enhances adhesion to fuels
- Extends suppression duration



Key Performance Attributes

- Superior heat reduction compared to water alone Improves heat absorption
- Extended wet line effectiveness (30–45+ minutes)
- Improved fuel coating and penetration Enhances adhesion to fuels
- No residual color on vegetation after burning
- Increases relative humidity under canopy conditions
- Reduced water usage compared to traditional wet line construction

Applications

- Wildfire initial attack and direct suppression
- Prescribed burning (RX fire)
- Burnout and firing operations
- Wet line construction on fire breaks
- Structure protection support
- Mop up and hotspot suppression

Compatible with slip on units, engines, water tenders, backpack pumps, and aerial platforms.



photo credit: Native Resource Preservation, LLC

Why Use BLAZETAMER380™ for Prescribed Burning

- Establish effective wet lines without exposing mineral soil
- Reduce water consumption while increasing line reliability
- Treat fuels immediately before and during firing operations
- Improve control margins during RX fire implementation

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or see Training modules at www.blazetamer.com

Mixing & Use with Ground Equipment



BLAZETAMER380™ is easy to batch mix in all types of ground equipment. Firefighters can adjust mix ratios based on fuel type, weather conditions, and fire behavior.

Recommended Ground Equipment Mix Rates

- Typical range: 0.2% – 0.3%**
- Some fuels respond effectively at 0.2%, while others may require 0.4%
- Avoid exceeding recommended rates to prevent increased viscosity that may restrict nozzle flow

General Guidance

- 1 quart treats approximately 125–250 gallons of water
- Water quality is not a limiting factor

Operational Flexibility

BLAZETAMER380™ allows firefighters to customize suppression performance rather than relying on a one size fits all approach, balancing performance, cost, and operational needs in real time.

Safety & Environmental Considerations

- Non toxic to humans, animals, and vegetation when used appropriately
- Biodegradable and environmentally safe
- Non corrosive to equipment and tanks
- Free of heavy metals and PFAS compounds

Recommended PPE: Eye protection, gloves, and long sleeved clothing. If contact occurs, wash skin or eyes with water.

Compatibility & Storage

- Mixed product may be stored in tanks for weeks to months without damage
- Compatible with tanks previously holding water, retardant, or gel (when flushed)
- Do not mix with foam; do not use with engine foam injection systems

Spill Awareness & Cleanup

- Concentrate spills may create slippery surfaces until absorbed
- Use absorbent material immediately on smooth or asphalt surfaces
- Asphalt damage may occur if not treated promptly
- Routine cleanup requires water only; hot water pressure washing is effective

Storage & Concentrate Maintenance

- Protect concentrate from moisture contamination
- Store in a cool, dry, well ventilated area
- Blend concentrate at least twice annually (three times recommended)

BLAZETAMER380™ provides a practical, science based enhancement to water, improving wildfire suppression and prescribed fire operations without increasing environmental risk or operational complexity.