

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 penetrationEnhances 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.