Virginia Firefighter, Ray Richards shares how to apply SoyFoam™ TF-1122 to Class “A” Fires

The key to rapid, effective extinguishment is based on surface area coverage and penetration. SoyFoam™ TF-1122 is recommended to be used at 0.1% - 1.0% for Class A fires. That can be introduced into the water stream through any type in-line eductor, on-board proportioning system, around-the-pump proportioning system, and CAFS systems. Any means by which a 1/4% or higher mixture ratio can be induced into the water source will provide tremendous extinguishing capabilities, faster cooling, and water savings. The use of combination, smoothbore, selectable gallonage, and foam tubes can be used following their manufactures recommendations.

When attacking Class “A” type fires with SoyFoam™ TF-1122 it is important to use an aggressive sweeping or circular motion with a power cone water stream pattern (straight stream) aimed at the base of the fire to knock down the bulk of fire then followed covering remaining solids to reduce pyrolysis, off gassing, and further combustion. This technique allows for good surface coverage, and in addition, allows the product to be spread over a greater surface area for faster and deeper penetration into the surface pores to get at the seat of the burning fuel. This quickly reduces the intense heat and smoke conditions, saves water, and provides added safety to firefighters. Wet area a little more and let stand for a short time to allow the product and water to soak in (keep monitoring the situation at all times), and wet as needed from this point. When the SoyFoam™ TF-1122 has penetrated deeply into the pores of the burning materials, it will help prevent re-ignition.

Applying SoyFoam™ TF-1122 ahead of a fire in the flow path will help provide an excellent source for cutting a fire’s path and help prevent advancement. When SoyFoam™ TF-1122 is applied to a fire exposure it will help keep the area cool, (such as other structures, fire apparatus, automobiles, propane tanks, etc.), as well as help prevent fire advancement.

Note: It is always important to know exactly what type of fuel hazard with which you are dealing. Class “A” type fire and the procedures for fighting this type of fire with SoyFoam™ TF-1122 are similar to water firefighting procedures. The difference is the ability for the product to penetrate the surface area of Class A materials more efficiently than water alone. Cross Plains Solutions strongly recommends to follow all Department Standard Operating Guidelines, foam system, hardware, and nozzle manufacture recommendations when using SoyFoam™ TF-1122. The application of SoyFoam™ TF-1122 should not differ from the use of any other foam you have used in the past.