

GENICS INC.

Cobra[™] SHIELD



- Genics *Cobra*[™] SHIELD II is the most versatile and effective wood pole fire retardant product on the market
- Highly effective intumescent coating which reacts to the fire or heat by expanding to many times the original dry thickness
- Limits heat and oxygen to wood pole



Application

Genics *Cobra*™ SHIELD can be applied by brush, roller or with a power sprayer (Genics recommends Graco 450 or larger airless sprayer) to a thickness of approximately 1/32" TO 1/64". Remove vegetation from around pole and apply to at least six feet. Product will be fully dry in 24 hours and equipment can be cleaned up with soap and water. Ensure pole is dry and that ambient air temperature is and remains at a minimum of 50F for at least 48 hours.



Features

Genics *Cobra*™ SHIELD is a highly effective intumescent coating that reacts to fire or heat by expanding to many times its original dry film thickness. The expanded material forms a char which insulates against the heat of fire and reduces available oxygen to the surface. This limits flame spread and the amount of smoke developed.

Genics *Cobra*™ SHIELD is non-toxic. It contains no asbestos, harmful ingredients, halogens or solvents. It will not burn in liquid or solid state. Under fire conditions, it forms a char, preventing the spread of flames, and slowing the penetration of heat through the substrate (Fire Endurance).

When top-coated with Genics Pro Coat sealer, Genics *Cobra*™ SHIELD will remain effective for two to five years (depending on the local environment). Genics Pro coat is a quick drying spray on product which takes

very little extra time to apply.

With the quick curing time of *Cobra*™ SHIELD, it can be applied in front of fires. It is also effective as a long term fire damage prevention program when covered with a coat of Genics Pro Coat sealer. *Cobra*™ SHIELD is not only ideal for wild fire protection but also as a precautionary measure before controlled burns.

For temporary protection of outbuildings and other combustible materials, Genics also offers FR41. It is a clear fire retardant spray-on product which safely washes away with first rain. FR41 is applied at a rate of approximately 1 pint per pound of fully penetrable material (i.e. grass) or 80 square feet per gallon for flat surfaces.

Proven Effective

Genics *Cobra*™ SHIELD has been field tested for efficacy and durability and is a proven product in the protection of wood poles against the hazards of ground fires.

Field Testing



Pre Test Setup

During Burn

Approximately 1 Hour After Fire

Lab Testing

	Test Thickness (mils)	Flame Spread	Smoke Detected
Osrose FireGuard	125	25	60
	30	35	45
Genics Cobra Shield II	30	0	15

Independent lab tested to Fire Test ASTM E84

MILS are thickness measure of 1/1000th of an inch

Flame Spread and Smoke Detected numeric test results are a scale whereby lower numbers are more effective.

Available Products

<i>Cobra</i>™ SHIELD	Genics FR41	Genics Pro Coat sealer
#53020	#53150	#53090
5 Gallon Pail	5 Gallon Pail	5 Gallon pail
Approximate coverage 80 sq ft per gallon	Approximate coverage 80 sq ft per gallon	Approximate coverage 320 sq ft per gallon

Guarantee/Warranty: Recommendations of the use of our products are based on tests carried out at government approved labs. Manufacturer and seller are not responsible for results where the product is used under conditions beyond our control. Under no circumstances will Genics Inc. be liable for consequential damages to anyone in excess of the purchase price of the product or services.