

CS11-KFW

CanNTFIRE

FIRE-RETARDANT AND PRESERVATIVE SEALER

FOR WOOD BAMBOO FABRIC CONCRETE



### Description



CanNTFIRE(CS11)-KFW is a water-based fire retardant coating solution that protects wood, bamboo, fabric material and concrete from fire and deterioration, extending the lifespan and durability of structures and components. Formulated with a proprietary blend of inorganic liquid solution primarily comprising nano silicates and a special modifier, it creates a penetrative clear coating that inhibits the spread of fire and reduces fire hazards of materials at construction sites and during use. It is non-toxic, odorless, and environmentally friendly, preserving the original colors and appearance of materials while reinforcing their fire retardant properties and enhancing durability.

### Features



- Provides a barrier against flames
- Prevents the formation of mildew and fungi
- Reduces the penetration of oils, grease, and pollutants
- Penetrates into the materials while allowing for normal breathability
- Hardens the material surface, extending its life over time
- Protects against UV rays and provides excellent moisture protection
- Minimize natural expansion and retraction of materials in freezing weather
- Does not alter the texture or natural colour of the materials
- Can be used with paint, stain, or varnish
- UV resistant
- Reduces impact from chemical attack

### Properties



Description	Performance
Composition	Proprietary blend of silicates in a water-based solution
Colour	Clear / Colourless
Organic properties	Odourless, colourless liquid
Flammability	Non-flammable
VOC Content	None
Environmental risk	None
Number of coating	1-2 coat(s)
Coverage rate	20-25m <sup>2</sup> /L (subject to application method and substrate surface roughness)
Shelf life	36 months in sealed container (5 - 32°C)
Curing	Dries to touch in 30 minutes and can be handled after 1 hour
Storage	Store at room temperature and keep away from glass and aluminum

### Application



- Surface preparation:
  - No preparation required for new bare wood surfaces.
  - Remove all previous treatments or paints for maximum penetration and effectiveness.
- Coating method:
  - Apply at temperatures above 10°C.
  - Do not dilute or mix with other liquids.
  - Stir thoroughly before use.
  - Apply evenly using brushes, rollers, or spraying with low-pressure pumps (max. 5 bar).
  - Apply from bottom upwards on vertical surfaces.
  - For aged wood or maximum strength protection, wait 7-10 days between applying coats.
  - Allow 24-48 hours to dry (crystallize) in a ventilated area.
  - Allow 2-4 hours of drying time after application on hardwood floors.
  - Excessive application will not penetrate the material. Avoid pooling the product on the material surface. Excess amounts must be removed with water and a scraping tool before it dries.
  - Clean up with mild soap and water.
- Following Application:
  - Water-based product can be applied on top of CanNTFIRE after 24-48 hours. Other products can be applied on top of CanNTFIRE after 48 hours. Users are encouraged to test the product prior to application.
  - CanSEALER-H9, a semi-penetrative top coat, can be applied on top of CanNTFIRE to minimize surface dirt and guard against scrapes if required.

### Uses



- Structural elements of timber construction, including supports, trusses, attic spaces, and framing
- Solid hardwood flooring
- Timber decks, terraces, pergolas, furnishings, and fencing installations
- Architectural structures and ornamental finishes
- Outdoor storage sheds
- Window frames and balcony structures
- Wooden planters and garden enclosures
- Artisanal woodcraft and sculptures
- Textiles and diverse surfaces requiring fire protection
- Metal or steel surfaces as fire retardant coating



# CANNTFIRE

## CS11-KFW



### Testing & Certification



Description	Standards	Results
Fire test - Fire propagation	BS 476 Part 6:1989 + A1:2009 + C1:2014	Passed
Fire test - Surface spread of flame	BS 476 Part 7:1997 + AC:2014	Class 2

### For Wood Furniture



### For Bamboo



### For Fabric



### For Carpet

### For Structural Timber

### Packages



### Cautions



- Cloudy white stains can appear if too much CanNTFIRE is applied; These can be removed with a slightly moist abrasive sponge.
- Protect glass and aluminium during application as they can be damaged by the product.
- Do not apply below 10°C or above 40°C.
- Do not apply when precipitation is forecast within 24 hours.
- Store at room temperature, keep away from glass and aluminium.

Manufacturer & Sole Agent  
**CanShield Nano-Technologies Inc. (Canada)**  
**CanShield Nano-Technologies Ltd. (HongKong)**  
 Web: canashield.com

Authorized Applicator  
**GreenWalls Bioengineering (HK) Ltd.**  
 Web: greenwalls.com.hk  
 Email: ncpp@greenwalls.com.hk