



## Leather Seal Application Guide

### Description

Leather Seal Concentrate (LSC) is a char forming penetrating fire retardant. A carbon char is formed between the fire and the leather reducing the effect of the fire, heat, and smoke.

LSC can be applied in various stages of leather production. The key factor is that the fire retardant penetrates the leather fibers. The product can be applied by spray application and via addition during milling and in the retan process.

### Spray Application

LSC can be applied via spray application in various stages of leather production as it penetrates through leather fibers.

#### Crust or Finished Leathers

- Flesh side application using 20 grams / sqft. One to two passes may be required depending on requirements.
- Pile the crust grain to grain
- 8 Hour lay time minimum. Cover with plastic

### Post Application Processing

Post application processing helps ensure the leather stay in high quality condition after being treated with LSC.

#### Soft Leathers

- Mil for 3 hours at 35°C / 95°F - closed doors
- Mil for 3 hours at 40°C / 104°F - open doors
- Condition at 20°C / 68°F - hang dry

#### Full or Corrected Grain Crust - Firm Temper

- Condition at 20°C / 68°F - hang dry
- Stake as needed
- FinishED as needed

#### Finished Leathers

- Mill or Stake as needed

Test to required Standard. Repeat application if necessary

## Dry Mill Fire Retardant Application

### Finished Leathers

Add 20 grams per sq. / ft. to the dry mill following the table below. Divide calculated amount into 5 equal portions.

Leather Seal Concentrate	Drum Temperature °C	Leather Seal Grams	Running Time Minutes	Closed Door or Screen Door	Remarks
1st Addition	35	1/5	15	Closed Door	-
2nd	35	1/5	15	Closed Door	-
3rd	35	1/5	15	Closed Door	-
4th	35	1/5	15	Closed Door	-
5th	35	1/5	120	Closed Door	-
	40	-	160	Screen Door	-
Total	-	-	6 Hours	-	Condition 20°C Overnight



**WARNING! May cause mild skin or eye irritation.**

READ LABEL BEFORE USE

Wash hands thoroughly after handling. Wear eye/face protection. IF IN EYES; Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If skin irritation occurs; seek medical advice/attention. If eye irritation persists; get medical advice/attention. Store in closed container. Dispose of contents/container using approved waste disposal facility. May be harmful if swallowed.

WARNING: Store out of reach of children. If swallowed, give large quantities of water. Call a physician. In case of eye contact, flush thoroughly with water for 15 minutes. Call a physician. Use with adequate ventilation. May be irritating to sensitive skin.

THERE ARE NO WARRANTIES OF PERFORMANCE EITHER EXPRESSED OR IMPLIED SINCE FLAME SEAL PRODUCTS, INC. CANNOT CONTROL THE ACTUAL APPLICATION OF THE PRODUCTS. PRODUCTS ARE GUARANTEED TO PERFORM THEIR FIRE RETARDANT FUNCTION IF APPLIED ACCORDING TO INSTRUCTIONS.

Contains:  
5 Gallon - 18.9 Liters

Batch# FSLSC00000/0000A

SHELF LIFE  
6 Months Unopened



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## Retan Fire Retardant Application

To the end of the retan process add the following steps:

Operation	Products	Temp °C	%	Weight (G)	Time (Min)	Controls	Remarks
Drain, Wash, Drain	Water	25	250	2,500	10		
No Float							
Add	LSC	30	25	250	30	pH=3.3-3.5	Check
	Drain, No Wash						

- Hold overnight
- Hang Dry
- Set out
- Condition and Stake as needed
- Vacuum 2 minutes at 60°C

### Non Toxic

Chemical compound is non toxic and contains no listed carcinogens as published by the E.P.A.

### Warranties

Products are guaranteed to perform their fire retardant function as represented by third party tests, if applied according to the manufacturer's published instructions. Products may not be diluted or altered prior to use.

\*There are no other warranties either expressed or implied since Flame Seal Products Inc. cannot control the actual application of the products. Users must determine usability and suitability for the particular requirements, as well as compatibility with the exact materials to be treated or coated.

\*Exception - An expanded warranty is available for work performed by certified applicators