

**CAFCO SprayFilm WB 4**, combined with CAFCO SprayFilm Topseal, is a water-based system investigated by UL for use in exterior applications to provide fire resistance to structural steelwork. An exterior finish coat must be applied over Topseal to provide a smooth, durable and decorative finish. The entire SprayFilm WB 4 system (the WB 4 basecoat, Topseal and exterior finish coat) must be maintained throughout the service life of the building.

It is important that the appropriate Dry Film Thickness (DFT) of SprayFilm WB 4 and SprayFilm Topseal be applied to provide the required fire resistance rating.

In order to prepare an accurate estimate, it is necessary to collect and understand all relevant information on the project. The following items are required:

- 1) Complete copy of specification and all addenda.
- 2) Complete set of plans.
- 3) Complete understanding of where the SprayFilm WB 4 system will be used.

Please refer to the SprayFilm WB 4 Application Manual for proper installation procedures and the Safety Data Sheet for health and safety precautions.

The attached worksheet will aid the estimator with the project takeoff. Please feel free to make additional copies of this worksheet. **An electronic and automated version of this estimating guide is available upon request.** Our Technical Services Team is available to assist you with your intumescent takeoff.

### **ESTIMATING PROCEDURE FOR THE SPRAYFILM WB 4 SYSTEM:**

1. Identify and separate the steel sections to be protected according to size. Enter these members under the "Member Designation" column on the attached worksheet.
2. Insert the W/D or A/P ratios along with the square foot per lineal foot factors for each member into columns "1" and "3", respectively.

3. Insert total lineal feet for each member size into column "2".
4. Multiply Columns "2" and "3" to reach total square feet per member. Insert this value into column "4".
5. Determine the required fire resistance rating and corresponding SprayFilm WB 4 thickness for each member designation. Insert this thickness as a whole number in "mils" into column "5".
6. Divide the coverage factor, which in this case is '1122' by the mils listed in column "5" to obtain total US gallons per square foot. Insert this number into column "6". For example, if you require 164 mils, then  $1122 \div 164 \text{ mils} = 6.84 \text{ sq. ft. / gal.}$
7. Divide column "4" by column "6" to arrive at total gallons required for the member(s). Insert this number into column "7".
8. In order to determine the number of coats required by either brush or spray application, divide the required mil thickness listed in column "5" by the desired number of mils per coat. Brush applications typically range from 12 to 20 mils per coat and spray applications typically range from 15 to 60 mils per coat.
9. Repeat procedures 1 through 8 for each member size and total the items. Add the determined waste factor to establish a sub-total.
10. CAFCO SprayFilm WB 4 basecoat is delivered in 5 gallon pails; therefore the total gallons shall be divided by five (5) to obtain the total pail count.
11. CAFCO SprayFilm Topseal must be applied at a dry film thickness of 14 mils over the basecoat. In order to determine total 1.5 gal. kits required, you must add up total square feet of all members listed in column "4". This result must be divided by 120.3, which is the theoretical sq. ft. / kit for CAFCO SprayFilm – Topseal applied at a DFT of 14 mils.

Labor, waste factors and incidental costs will represent a significant percentage of your estimated costs and project bid price. Labor, masking, setup, machinery, clean up, etc. should all be taken into consideration when calculating total costs for the project.

