



F-Cal Premium Transparent Overlay Film Technical Bulletin

1. INTRODUCTION

Hi-S Cal Brand EF-40801 (F-Cal) is a highly durable premium protective overlay film with a pressure sensitive adhesive and liner paper. Typical application is for signs and decals.

2. AVAILABLE STANDARD WIDTH, LENGTH AND COLOR

Width: 24", 30", 36" and 48"

Length: 50 Yards

Color: Clear

3. FEATURES

- Excellent UV Resistance
- Outstanding Chemical Resistance
- Superior Weatherability
- Exceptional Transparency
- Amazing Flexibility
- Resistance to Staining

4. TECHNICAL DATA

Properties	Test Method
Top Film	Fluorine Resin
Thickness	1.6 mil
Tensile Elongation	300%
UV Transmittance (Visible Light)	94%
Min./Max. Application Petrol Turpentine Ethyl Acetate Toluene	No change in 1 hour No change in 24 hours No change in 1 minute No change in 1 minute
Graffiti Removal after 80° F x 72 hours Lip Stick Permanent Marker	Removable with Solvent Removable with Solvent
Application Temperature	50° F - 95° F

The vales are intended only as a source of information. They are given without guarantee and do constitute a warranty.

5. DURABILITY

When F-Cal is applied per the manufacturer's instructions, has an excepted performance life of 10 years when exposed vertically. F-Cal shall be considered as performing satisfactorily if the transparent overlay film has not deteriorated due to natural causes. This does not include the inks or films which the overly film is applied over.



6. ADHESIVE BOND

Manufacturer's testing has found the adhesive to form a durable bond to Nikkalite™ reflective sheeting. The manufacturer **does not** recommend overlapping F-Cal. F-Cal must be tested by the end user if applied to any surface other than Nikkalite™ reflective sheeting.

7. APPLICATION PROCESS

For best results, sheeting should be applied inside a temperature-controlled facility. A minimum 24-hour curing period is needed to maximize adhesive strength. A squeegee or laminator is needed for consistent pressure. Inks must be completely dried prior to the application of F-Cal and should always be applied on a new sign. Note that F-Cal does not adhere to itself.

8. STORAGE AND SHELF LIFE

F-Cal should be stored between 59°F and 77°F (15°C and 25°C) with a relative humidity of 30% to 60%, and out of direct sunlight. Rolls should be stored horizontally above the floor with proper suspensions. Rolls should not rest on a hard surface as this may damage the sheeting. Do not stand full or partial rolls vertically. F-Cal has a 12-month shelf life.

9. RELIABILITY

All recommendations and technical information contained herein are based on experience and tests, which the manufacturer believes to be reliable. The user is cautioned to undertake their own evaluation to determine the suitability of a particular product for the intended application.

10. WARRANTY

Nikkalite™ products are warranted to be free from defects in materials and workmanship at the time of their sale. Performance durability is warranted for sheeting exposure less than 45°. Exposure angles exceeding 45° will reduce the durability proportionally.

11. CAUTION

Read through First Aid, Health Hazard and Precautionary statements mentioned in the Materials Safety Data Sheets (MSDS).