

## Nikkalite® Flexible Engineering Grade (FEG)

### Description

Nikkalite® Flexible Engineering Grade (FEG) is a flexible glass-beaded retroreflective sheeting that renders retroreflectivity during darkness. It is designed for use on emergency vehicles and fleet markings where application to riveted and corrugated surfaces may be required. The material is highly resistant to extremes of hot, cold, dry and humid weathering conditions and vehicles liveried with FEG sheeting are attractive in appearance and highly visible during both day and night-time conditions.



### Traffic Signs Manual Chapter 8 Operations; O5.2.3(c)

Chapter 8 requires high visibility rear vehicle chevron marking for vehicles stopping on the highway for works purposes or inspections.

**O5.2.3(c) states;** Chevron markings comprising alternate strips of retroreflective red material and fluorescent yellow non-retroreflective material, of not less than 150mm width each, inclined at 45-60° to the horizontal and pointing upwards, should cover as much of the rear-facing portion of the vehicle as possible...



**Nikkalite® 48005 Red FEG** used with **Hi-S Cal® Fluorescent Light Yellow 7F-310** complies with O5.2.3(c) colour requirements

(Refer to separate technical information for Hi-S Cal® sheetings)

### Retroreflectivity

Nikkalite® FEG is available in 24" and 48" x 50yds rolls in the following colours;

Colour	Black	Yellow	Red	Blue	Green	White
Product No	48003	48004	48005	48006	48008	48012
OA 0.2°	3	50	5	6	7	70
EA -4°						

Average coefficient of retroreflection cd/lux/sq.mtr. OA; Observation angle EA; Entrance angle

### Physical properties

Properties	Test method	Results
Average thickness	Micrometer	150+/-5um
Average Gloss	Glossmeter	>85 at 60°C
Tensile strength	Instron tester	>2.3kgf/25mm
Elongation	Instron tester	>120
Min application temperature	Flat smooth surface	15°C
Max application temperature	Corrugated / Riveted surfaces	25°C

**Expected performance life**

FEG can be expected to have a useful working life of up to 7 years on vertical panels for standard colours.

**Removal of livery**

Warm the panel by applying gentle heat to the surface and peeling away.

**Reliability of information**

All recommendations and technical information contained herein are based on experience and tests, which the manufacturer believes to be reliable, but their accuracy and completion are not warranted.

The user is cautioned to undertake tests to determine the suitability of a particular product for the intended application.

**Warranty**

Nikkalite® & Hi-S Cal® products are warranted to be free from defects in materials and workmanship at the time of their sale.

Subject to paragraph two hereof, Nikkalite® & Hi-S Cal® products are sold without any warranty whatsoever, including warranties of merchantability or fitness for a particular purpose.

The sole remedy for failure of Nikkalite® & Hi-S Cal® products to conform to said warranty is the replacement of the defective products; neither the manufacturer nor the seller shall be liable for any loss, damage or injury, direct or indirect, consequential or incidental, arising from the use of or inability to use said products.

Nikkalite® & Hi-S Cal® products sold in the United Kingdom are sold with a warranty subject to the Warranty Agreement between Rennicks (UK) Limited, Nippon Carbide Industries Inc., and the sheeting convertor.

# LOOKING AFTER YOUR LIVERY

## VEHICLE CLEANING GUIDELINES

### CORRECT

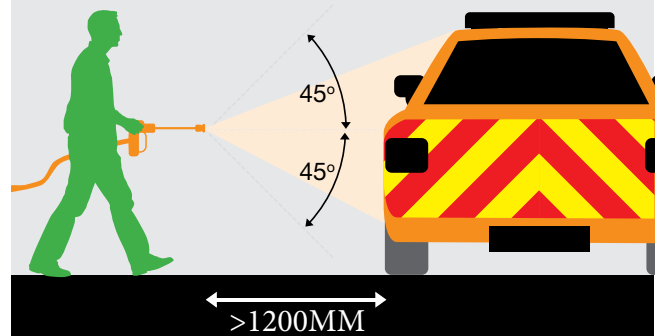
- ✓ Use a fan spray of water
- ✓ Maintain nozzle more than 1200mm from livery edges
- ✓ Maximum 75 bar water pressure
- ✓ Maximum water temperature 38°C
- ✓ Maintain angle greater than 45 degrees to vehicle
- ✓ Use a mild detergent, clean water & soft brush
- ✓ Avoid chevron tips, corners and vulnerable areas of kit

### INCORRECT

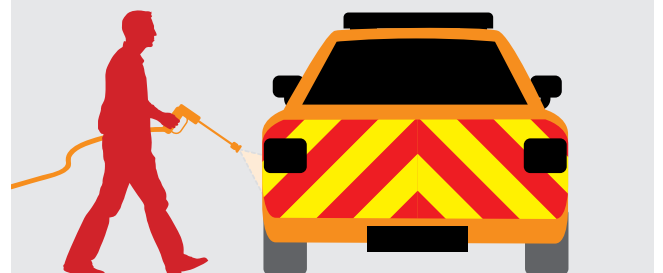
- ✗ Do not direct high pressure water at edges of sheeting
- ✗ Do not hold nozzle closer than 1200mm to livery
- ✗ Do not direct water at angle of less than 45° to livery
- ✗ Do not use solvents, abrasive, alcohol based cleaners or vehicle under body cleaning solutions
- ✗ Do not steam clean liveries



### CORRECT



### INCORRECT



**Nikkalite**<sup>®</sup>

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**Rennicks**<sup>U.K.</sup>  
CLEARLY BETTER