

Processing and Application Instructions

Recommended guidelines when converting Nikkalite® and Hi-S Cal® vehicle livery materials



Introduction

Nikkalite® retroreflective & Hi-S Cal® non retroreflective conspicuity sheetings offer excellent visual performance when applied as vehicle liveries. Vehicles should be prepared and the kits applied in line with the following recommendations to ensure correct adhesion and performance.

The information in this bulletin applies to all Nikkalite® retroreflective & Hi-S Cal® non retroreflective sheetings.

Livery design

Kits should be designed to correctly fit the vehicle contours and for three dimensional contours additional pieces should be considered instead of one large panel.

Kits should be fitted without introducing tension and allowing sufficient clearance to the edges of body panels, handles etc.

Nikkalite® Crystal grade microprismatic sheeting may be edge sealed, if required, using ultrasonic cut and seal (e.g Rinco system) to prevent dirt ingress and discoloration in the outer cut cells. Maximum reflectivity is obtained when Nikkalite® Crystal grade is applied in a horizontal direction.

Nikkalite® Crystal grade microprismatic & Hi-S Cal® fluorescent non retroreflective sheetings will adhere to flat and two dimensional contoured panels.

Nikkalite® Flexible engineering grade sheeting offers more conformability.

Storage of kits before application

Do not apply heavy weights to kits during transportation or storage, this may bruise the sheeting. Kits should be stored flat in dry clean conditions between 15°C to 30°C, and out of direct sunlight.

Both the vehicle & sheeting in the kit should be conditioned to the same air temperature for several hours within 15°C to 30°C range before application.

Vehicle preparation

All surfaces to should be thoroughly cleaned using Isoproyl Alcohol (IPA), Ethyl Acetate or MEK with particular attention to the complete removal of surface contaminants and protective waxing agents.

Recently painted panels should be left for 3 days to allow for outgassing of solvents before livery application.

Livery application

Before removing the liner ensure the piece can be correctly applied without introducing tension. If the sheeting is not correctly applied as per the designed shape, tension may later be released causing a wrinkle or lifting at the edges during the curing period, which may not have been evident initially but may be visible after 24 to 48 hours.

Apply Nikkalite® & Hi-S Cal® sheetings dry; do not use the “wet application” method.

The livery should be applied using firm overlapping strokes using a fibre type squeegee or sleeved plastic squeegee to expel all air. When the kit is completely fitted, reapply firm pressure along all edges to ensure correct adhesion.

- Do not expose vehicle to freezing conditions during the first 24 hours following application.
- Full adhesion will occur after several days, and may take longer in winter temperatures.



Removal

Sheetings may be removed by applying gentle heat to the surface and peeling away.

Cleaning

See attached cleaning instructions; failure to comply may lead to early kit degradation.

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.



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LOOKING AFTER YOUR LIVERY

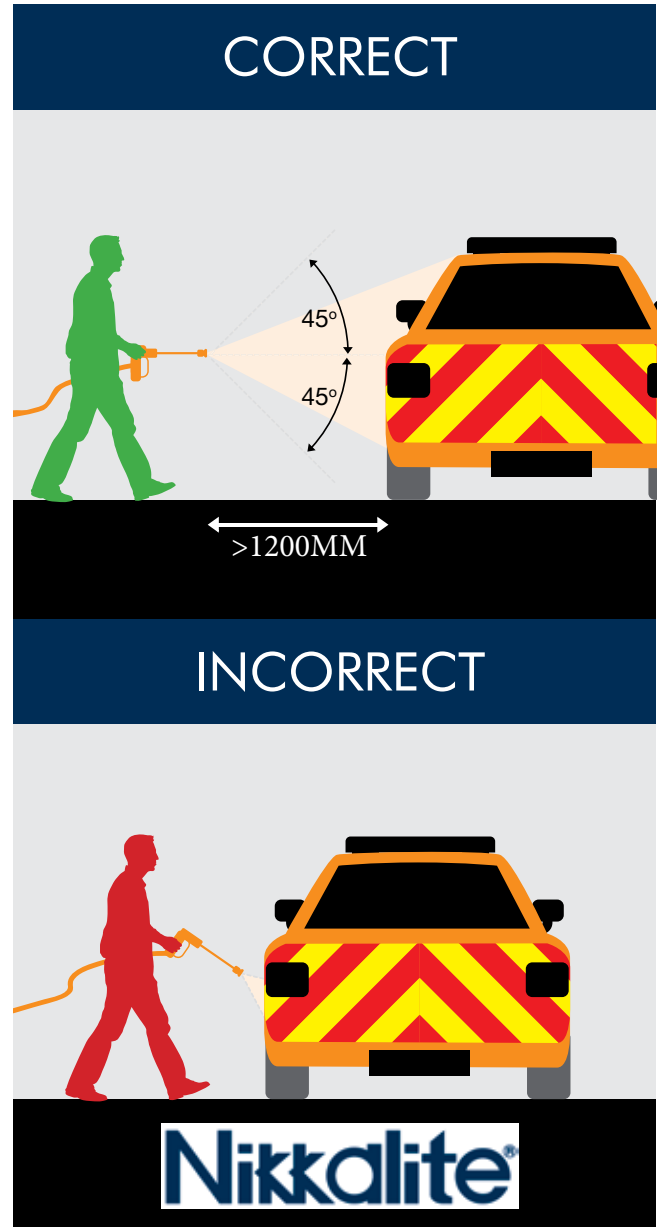
VEHICLE CLEANING GUIDELINES

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



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