

Nikkalite® 935000R series ECE 104 conspicuity tape for rigid sided vehicles

Introduction

Nikkalite® conspicuity tape is a high performance single layer microprismatic retroreflective sheeting manufactured by Nippon Carbide Industries (NCI), conforming to the requirements of ECE 104 for heavy goods vehicles, trailers and other vehicles as required by ECE regulation 48.

935000R series is durable polycarbonate sheeting coated with an aggressive adhesive on the reverse protected by a removable plastic liner.

ECE 104 approval number

Nikkalite® 935000R series meets the requirements of ECE 104 for heavy goods vehicles, trailers and other vehicles as required by ECE regulation 48.

Colour	ECE 104 approval number
White	E43-104R-000001
Yellow	E43-104R-000004
Red	E43-104R-000003

Product information: 935000R

Roll size 51mm x 50 mts.

The “R” designation in the product code denotes continuous rolls for application to rigid sides of vehicles. The “R” type is not suitable for application onto flexible surfaces as a continuous tape.

For flexible curtain side applications the 935000C type segmented tape should be used.

Continuous tape for rigid sides	
Colour	Product code
White continuous roll	935021R
Yellow continuous roll	935041R
Red continuous roll	935051R

Typical retroreflectivity

Colour	$\alpha=0.33^\circ$ $\beta 1=0^\circ$	$\beta 2$				
		5°	20°	30°	40°	60°
White		670	-	280	150	17
Yellow		650	-	255	130	16
Red		240	115	70	35	

Coefficients of retroreflection cd/lux/m²

Chromaticity co-ordinates

Colour		1	2	3	4
White	x	0.373	0.417	0.450	0.548
	y	0.402	0.359	0.513	0.414
Yellow	x	0.585	0.610	0.520	0.505
	y	0.385	0.390	0.480	0.465
Red	x	0.720	0.735	0.665	0.643
	y	0.258	0.265	0.335	0.335



Rigid surface preparation

Tape & vehicle should be conditioned to an ambient temperature between 15°C to 38°C, to ensure correct adhesion. Thoroughly clean surfaces ensuring free from surface contamination or corrosion and protective waxing agents on new vehicles. Do not apply over holes or protruding surfaces (rivets, dents) flaking paint etc..

Clean vehicle surface with Isopropyl Alcohol (IPA) or similar degreasing agent and use clean cloth to wipe dry. Weathered surfaces should be thoroughly cleaned. Rust or flaking paint should be completely removed and repainted. Allow painted surfaces to outgas for at least 24 hours.

For unpainted surfaces e.g. stainless steel please contact your distributor.

Application instructions

Determine the application position of the tape and cut to length. Do not overlap tape.

Peel back approximately 50mm of the liner, avoid touching the adhesive.

Correctly align the tape and remove a workable length of liner and apply the tape using a sleeved squeegee with firm overlapping strokes to remove air. Repeat down the vehicle length.

Carefully check all edges are firmly adhered to the vehicle surface, resqueegee as necessary.

Release any air bubbles using a pin and firmly press tape down.

After application avoid washing vehicle for at least 72 hours.

Vehicle washing instructions

Do not use abrasive or strong solvents such as vehicle traffic film cleaners or under body cleaning solutions on conspicuity tapes.

Manual Wash

Use mild detergent and clean water.

Use soft brush / cloth avoid catching corners of tape.

Rinse with clean water

Power Wash

Use mild detergent and clean water solution

Use fan spray of water and not direct water jet

Maximum 80 bar water pressure, max temp 60°C

Maintain nozzle more than 600mm from livery edges

Maintain angle greater than 45 degrees to vehicle surface

Performance life

When fitted and maintained in accordance with NCI instructions 935000R series has an expected performance life of up to 8 years.

Storage

Boxed rolls should be stored horizontally preferably at a temperature of 15°C to 25°C. Stocks should be rotated within 12 months and stored out of direct sunlight.

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® products are warranted to be free from defects in materials and workmanship at the time of their sale. Nikkalite® products are sold without any warranty whatsoever, including warranties of merchantability or fitness for a particular purpose. The sole remedy for failure of Nikkalite® 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.

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