# Nikkdite Brighter and safer life

### Reliability

All recommendations and technical information contained herein are based on our own tests and results, which the manufacture believes to be reliable, however, their accuracy and completeness are not warranted. The user is requested to conduct their own tests to determine the suitability of this product for its intended application.

### **Safety and Health Information**

Read carefully in advance the labels, instruction manuals, material safety data sheets (MSDS), and first aid measures of the retroreflective sheeting supplied by NCI, including the auxiliary materials such as inks and solvents used for NCI's products, and such as substrate cleansers.

#### Warning

Failure to comply with the explicit instructions in this bulletin will result in voiding all warranties express or implied for the used of this product. If retroreflective sheeting is to be applied to a surface other than conventional sign blank materials, prospective users should contact technical representatives of NCI for advice before such application.

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# Nikkalite Retroreflective Sheeting Guide



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Construction Zone Signs

Commercial Market Graphic Market

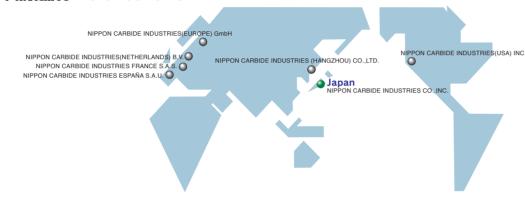
#### "Striving to be a company that shines through chemistry"

Our company aims to realize emerging technologies that will be demanded by society in the future. The Nippon Carbide Industries (NCI) Group takes an active role and is a leader in many fields including pharmaceuticals, agricultural chemicals, electronic devices, and retroreflective sheeting.

### Nikkalite Brighter and safer life

In an effort to improve safety and security to our global society, our division is a leader in manufacturing retroreflective sheeting and most importantly to provide roadway safety for the traffic industry, with maximum visibility during day and night-time roadway conditions.

#### **Nikkalite** worldwide network

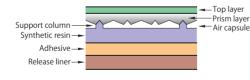


#### What is "Retroreflective sheeting"?

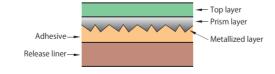
Retroreflective sheeting has a special optical phenomenon of reflection and occurs when light directed on the reflective sheeting is returned directly back to the source of light. This characteristic is quite different from luminous paint or luminescent tape.

Retroreflective sheeting has three types, "Prism type (Encapsulated and Metallized)", "Encapsulated lens type" and "Enclosed lens type". The characteristic is different depending on type, so customers can choose them in accordance with their own needs. All types of retroreflective sheeting are mainly used for traffic signs, safety products, car license plates and car decoration. To use the best applicable retroreflective sheeting to products, it can achieve the most excellent legibility and visibility.

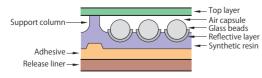
#### Prism type(Encapsulated)



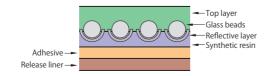
#### Prism type(Metallized)



### **Encapsulated lens type**



#### **Enclosed lens type**



## Nikkalite products list

| sage                              | Туре   | Grade                          | Series number                | Colour | Durability   |
|-----------------------------------|--|--------------------------------|------------------------------|--------|--------------|
|                                   | Super High Intensity<br>Prism type(Encapsulated) | Crystal Grade CF               | 99000 series                 |        | 10 years *2  |
|                                   | Prism type(Encapsulated)                         | Crystal Grade CV/CW            | 95000 series<br>92000 series |        | 10 years *2  |
|                                   |  | Crystal Grade HIM              | 94000 series                 |        | 10 years *4  |
| Signs                             | High Intensity Prism type (Encapsulated)         | Ultralite ULP                  | R800 series<br>R700 series   |        | 10 years     |
| Traffic Signs                     |  | Ultralite Extra ULX            | R600 series                  |        | 10 years     |
| -                                 | Encapsulated lens type (High Intensity)          | Ultralite UL                   | 800 series                   |        | 10 years *4  |
|                                   |  | Super Engineering Grade SEG    | 15000 series                 |        | 10 years *4  |
|                                   | Enclosed lens type                               | Engineering Grade EG           | 8100 series                  |        | 7 years *4   |
| _                                 | High Intensity Prism type (Encapsulated)         | Ultralite UXC                  | C400 series                  |        | 3 years      |
| Zone Signs                        | Encapsulated lens type                           | Ultralite UL                   | 800 series                   |        | 3 years      |
| one S                             |  | Engineering Grade EG           | 8100 series                  |        | 3 years      |
| N                                 | Enclosed lens type                               | Promotional Grade MPG          | F4300 series                 |        | No guarantee |
| et s                              |  | Fleet Marking Grade FMG        | M8500 series                 |        | 5 years      |
| c Mark                            | Enclosed lens type                               | Flexible Engineering Grade ELG | 48000 series                 |        | 5 years      |
| Graphi                            |  | Commercial Grade CG            | 6200 series                  |        | 5 years      |
| rcts                              | Encapsulated lens type                           | Flexible Ultralite Grade       | S500 series<br>V500 series   |        | 5 years *4   |
| Prod                              | Enclosed lens type                               | Fleet Marking Grade FMG        | M8500 series                 |        | 5 years      |
| Safety Products Commercial Market |  | Promotional Grade MPG          | F4300 series                 |        | No guarantee |
| 0)                                |  | Fleet Marking Grade FMG        | M8500 series                 |        | 5 years      |
| Plate                             | Enclosed lens type                               | License Plate Grade SCL        | L8500 series                 |        | 5 years      |
| License Plate                     |  | License Plate Grade MLG        | 45700 series<br>45300 series |        | 3 years      |
| Car Lic                           |  | License Plate Grade MG         | E4400 series                 |        | 3 years      |
| O                                 |  | Licerise Plate Grade MO        | T4400 series                 |        | 3 years      |
| et                                | Super High Intensity<br>Prism type(Encapsulated) | Crystal Grade CW               | 92000 series                 |        | 10 years *2  |
| Mark                              | r nom type (Emeapodiates)                        | Crystal Grade CM               | 96000 series                 |        | 7 years      |
| Conspicuity Market                | Prism type(Metallized)                           | Crystal Grade CE               | 93000 series                 |        | 5-7 years    |
| Consp                             |  | Fleet Marking Grade FMG        | M8500 series                 |        | 5 years      |
|                                   | Enclosed lens type                               | Flexible Engineering Grade ELG | 48000 series                 |        | 5 years      |
|                                   |  | Acrylic Film                   | 100 series                   |        | 10 years     |
|                                   | Overlay Film                                     | PVC Film                       | V102                         |        | 5 years      |
| SS                                | Anti-dew Film                                    | Dewtect                        | DT142                        |        | 7 years      |
| Accessories                       | Anti-graffiti Film                               | F-CAL                          | EF40801                      |        | 10 years     |
| Acce                              | Lettering Film (Hi-S Cal)                        | PVC Film                       | Hi-S Cal series              |        | 5 years      |
|                                   |  | Post-Screen Printing           | N3800 series                 |        | -            |
|                                   | Ink  | Pre-Screen Printing            | N3600 series                 |        |              |

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#### Super High Intensity Prism type (Encapsulated)

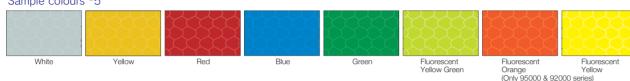
## Crystal Grade CF 99000 series / 95000 series / CW 92000 series

CF 99000 series, CV 95000 series and CW 92000 series are used for traffic signs with excellent reflection performance and long-term outdoor durability.

| Top film:              | Acrylic Film                     |
|------------------------|----------------------------------|
| Durability *1:         | 10 years *2                      |
| Recommended substrate: | Aluminium                        |
| Reflectivity *3:       | CF: 580 cd/lux/m2(White 0.2°/5°) |
|                        | CV: 380 cd/lux/m2(White 0.2°/5°) |
|                        | CW:700 cd/lux/m2(White 0.2°/5°)  |
|                        | 300 cd/lux/m2(White 0.33°/5°)    |
|                        |                                  |

Screen printing available \*6 Nikkalite™ 100 series, Anti-dew Film Dewtect, Anti-graffiti Film F-CAL Lettering film: Nikkalite™ retroreflective sheeting, Hi-S Cal

#### Sample colours \*5



#### High Intensity Prism type (Encapsulated)

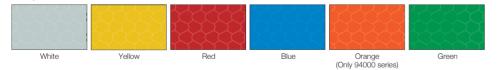
# Crystal Grade HIM 94000 series / Ultralite ULP R800 series & R700 series / Ultralite Extra ULX R600 series

HIM 94000 series, ULP R800/R700 series and ULX R600 series are used for traffic signs with excellent reflection performance and long-term outdoor durability.

| Top film:              | Acrylic Film                        | Sc |
|------------------------|-------------------------------------|----|
| Durability *1:         | 10 years                            | 0  |
| Recommended substrate: | Aluminium                           | Ni |
| Reflectivity *3:       | HIM: 360 cd/lux/m2 (White 0.2°/5°)  | Le |
|                        | ULP: 250 cd/lux/m2 (White 0.2°/5°)  | -  |
|                        | ULX: 180 cd/lux/m2 (White 0.33°/5°) |    |

Screen printing available \*6 Overlay film: likkalite™ 100 series, Anti-dew Film Dewtect, Anti-graffiti Film F-CAL ettering film: Nikkalite™ retroreflective sheeting, Hi-S Cal

#### Sample colours \*5



### **Example of Product Application**





#### Encapsulated lens type(High Intensity)

## Iltralite UL 800 series & 500 series

UL 800 series and 500 series are used for traffic signs with excellent reflection performance and long-term outdoor durability.

| Top film:              | Acrylic Film                   | Screen print   |
|------------------------|--------------------------------|----------------|
| Durability *1:         | 10 years *4                    | Overlay film:  |
| Recommended substrate: | Aluminium                      | Nikkalite™ 1   |
| Reflectivity *3:       | 250 cd/lux/m2 (White 0.2°/5°)  | Lettering film |
|                        | 180 cd/lux/m2 (White 0.33°/5°) |                |

nting available \*6 00 series, Anti-dew Film Dewtect, Anti-graffiti Film F-CAL m: Nikkalite™ retroreflective sheeting, Hi-S Cal

#### Sample colours \*5



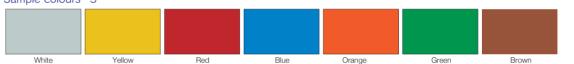
#### Enclosed lens type

## Super Engineering Grade SEG 15000 series

SEG 15000 series is used for traffic signs and general signs with highest reflection performance in the enclosed lens type.

| Top film:              | Acrylic Film                  | Screen printing available *6   |
|------------------------|-------------------------------|--|
| Durability *1:         | 10 years *4                   | Overlay film:  |
| Recommended substrate: | Aluminium                     | Nikkalite™ 100 series, Anti-dew Film Dewtect, Anti-graffiti Film F-CAL |
| Reflectivity *3:       | 140 cd/lux/m2 (White 0.2°/5°) | Lettering film: Nikkalite™ retroreflective sheeting, Hi-S Cal          |

#### Sample colours \*5



#### Enclosed lens type

## Engineering Grade EG 8100 series

EG 8100 series is used for traffic signs and general signs with excellent retroreflective performance and medium-term outdoor durability.

| Top film:              | Acrylic Film  | Screen printing available *6   |
|------------------------|---|--|
| Durability *1:         | 7 years *4  | Overlay film:  |
| Recommended substrate: | Aluminium   | Nikkalite™ 100 series, Anti-dew Film Dewtect, Anti-graffiti Film F-CAL |
| Reflectivity *3:       | 70 cd/lux/m2 (White 0.2°/5°)<br>50 cd/lux/m2 (White 0.33°/5°) | Lettering film: Nikkalite™ retroreflective sheeting, Hi-S Cal          |

#### Sample colours \*5



### **Example of Product Application**









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## Construction Zone Signs

### High Intensity Prism type (Encapsulated)

UXC C400 series are used for construction zone signs.

| Acrylic Film                  |
|-------------------------------|
| 3 years                       |
| Aluminium                     |
| 250 cd/lux/m2 (White 0.2°/5°) |
|                               |
|                               |

# Sample colours \*5





### Encapsulated lens type(High Intensity)

## Ultralite UL 800 series & 500 series

UL 800 series and 500 series are used for construction zone signs.

| Top film:                    | Acrylic Film                   |
|------------------------------|--------------------------------|
| Durability *1:               | 3 years                        |
| Recommended substrate:       | Aluminium                      |
| Reflectivity *3:             | 250 cd/lux/m2 (White 0.2°/5°)  |
|                              | 180 cd/lux/m2 (White 0.33°/5°) |
| Screen printing available *6 |                                |



#### Enclosed lens type

# Engineering Grade EG 8100 series EG 8100 series EG 8100 series is used for construction zone signs.

| Top film:                    | Acrylic Film                  |
|------------------------------|-------------------------------|
| Durability *1:               | 3 years                       |
| Recommended substrate:       | Aluminium                     |
| Reflectivity *3:             | 70 cd/lux/m2 (White 0.2°/5°)  |
|                              | 50 cd/lux/m2 (White 0.33°/5°) |
| Screen printing available *6 |                               |



Screen printing available \*6

#### Enclosed lens type

## Promotional Grade MPG F4300 series

MPG F4300 series has tough surface used for construction zone signs and temporary signs.

| Durability ^ I :       | No guarantee          |          |        |       |                             |
|------------------------|-----------------------|----------|--------|-------|-----------------------------|
| Recommended substrate: | Aluminium             |          |        |       |                             |
| Reflectivity *3:       | 30 cd/lux/m2 (White ( | 0.2°/5°) |        |       |                             |
| Sample colours *5      |                       |          |        |       |                             |
|                        |                       |          |        |       |                             |
|                        |                       |          |        |       |                             |
| White Yel              | low Red               | Blue     | Orange | Green | Fluorescent<br>Yellow Green |

#### **Example of Product Application**





### Enclosed lens type

# Fleet Marking Grade FMG M8500 series FMG M8500 series FMG M8500 series is a flexible retroreflective sheeting used for advertising boards and stickers.

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| Top film:              | PVC Film                     |
|------------------------|------------------------------|
| Durability *1:         | 5 years                      |
| Recommended substrate: | Aluminium                    |
| Reflectivity *3:       | 70 cd/lux/m2 (White 0.2°/5°) |

Screen printing available \*6

#### Sample colours \*5



#### Enclosed lens type

# Flexible Engineering Grade ELG 48000 series ELG 48000 series a flexible retroreflective sheeting used for advertising boards and stickers.

| Top film:              | Polyester Film               | Screen printing available |
|------------------------|------------------------------|---------------------------|
| Durability *1:         | 5 years                      |                           |
| Recommended substrate: | Aluminium                    |                           |
| Reflectivity *3:       | 70 cd/lux/m2 (White 0.2°/5°) |                           |

Screen printing available \*6

#### Sample colours \*5



#### Enclosed lens type

## Commercial Grade CG 6200 series

Acrylic Film

CG 6200 series is used for all types of signs and devices that do not require the higher level of performance offered by EG.

| Durability *1:         | 5 years               |         |      |        |       |
|------------------------|-----------------------|---------|------|--------|-------|
| Recommended substrate: | Aluminium             |         |      |        |       |
| Reflectivity *3:       | 50 cd/lux/m2 (White 0 | .2°/5°) | _    |        |       |
| Sample colours *5      |                       |         |      |        |       |
| Sample colours 5       |                       |         |      |        |       |
|                        |                       |         |      |        |       |
|                        |                       |         |      |        |       |
|                        |                       |         |      |        |       |
| M/bito Dlool           | Vollow.               | Dod     | Dlue | Orongo | Croop |





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#### Encapsulated lens type(High Intensity)

## Flexible Ultralite UL S500 series / V500 series

UL S500 series and V500 series are flexible retroreflective sheeting used for the post cone, traffic cone, safety barrel and

| Top film:              | S500 series: Urethane Film             | Screen printing available *6  |
|------------------------|--|-------------------------------|
|                        | V500 series: PVC Film                  |                               |
| Durability *1:         | S500 series: 5 years *4                | _                             |
|                        | V500 series: 3 years *4                |                               |
| Recommended substrate: | Aluminium                              | _                             |
| Reflectivity *3:       | S500 series: 250 cd/lux/m2, 180 cd/lux | /m2 (White 0.2°/5°, 0.33°/5°) |
|                        | V500 series: 250 cd/lux/m2, 180 cd/lux | /m2 (White 0.2°/5°, 0.33°/5°) |

#### Sample colours \*5



#### Enclosed lens type

# Fleet Marking Grade FMG M8500 series FMG M8500 series is a flexible retroreflective sheeting used for the post cone, traffic cone, safety barrel and other traffic safety devices.

| Top film:              | PVC Film                                 | Screen printing available *6 |
|------------------------|--|------------------------------|
| Durability *1:         | 5 years                                  |                              |
| Recommended substrate: | Aluminium                                |                              |
| Reflectivity *3:       | 70 cd/lux/m2, 30 cd/lux/m2 (White 0.2°/5 | 5°, 0.33°/5°)                |

Screen printing available \*6

#### Sample colours \*5



#### Enclosed lens type

Top film:

## Promotional Grade MPG F4300 series

MPG F4300 series has tough surface used for traffic safety devices and similar products

| Durability *1:         | No guarantee                 |   |  |
|------------------------|------------------------------|---|--|
| Recommended substrate: | Aluminium                    |   |  |
| Reflectivity *3:       | 30 cd/lux/m2 (White 0.2°/5°) |   |  |
| Sample colours *5      |                              | _ |  |
|                        |                              |   |  |
|                        |                              |   |  |





## Enclosed lens type

Car License Plate

# Fleet Marking Grade FMG M8500 series FMG M8500 series can be used on license plate for embossing type.

| Top film:              | PVC Film                      |
|------------------------|-------------------------------|
| Durability *1:         | 5 years                       |
| Recommended substrate: | Aluminium                     |
| Reflectivity *3:       | 70 cd/lux/m2 (White 0.2°/5°)  |
|                        | 50 cd/lux/m2 (White 0.33°/5°) |
| Embossable height:     | Up to 2.0mm                   |

| Characters are pri | ntable by screen | printing, rol | ler coating an | d hot stamping. *7 |
|--------------------|------------------|---------------|----------------|--------------------|
| Sample colours     | *5               |               |                |                    |
|                    |                  |               |                |                    |
|                    |                  |               |                |                    |
| White              | Yellow           | •             |                |                    |

#### Enclosed lens type

## icense Plate Grade SCL L8500 series

SCL L8500 series can be used on license plate for embossing type.

| Top film:              | Acrylic Film                  |
|------------------------|-------------------------------|
| Durability *1:         | 5 years                       |
| Recommended substrate: | Aluminium                     |
| Reflectivity *3:       | 70 cd/lux/m2 (White 0.2°/5°)  |
|                        | 50 cd/lux/m2 (White 0.33°/5°) |
| Embossable height:     | Up to 2.0mm                   |
|                        |                               |



#### Enclosed lens type

## License Plate Grade MLG 45700 series & 45300 series

MLG 45700 series and 45300 series can be used on license plate for plastic plate type.

| Top film:              | Acrylic Film                         |
|------------------------|--------------------------------------|
| Durability *1:         | 3 years                              |
| Recommended substrate: | 45700 series: N/A (without adhesive) |
|                        | 45300 series: Plastic                |
| Reflectivity *3:       | 60 cd/lux/m2 (White 0.2°/5°)         |
|                        | 40 cd/lux/m2 (White 0.33°/5°)        |



#### Enclosed lens type

## license Plate Grade MG E4400 series & T4400 series MG E4400 series and T4400 series can be used on license plate for French embossing type.

| Top film:              | Acrylic Film                  |
|------------------------|-------------------------------|
| Durability *1:         | 5 years                       |
| Recommended substrate: | Aluminium                     |
| Reflectivity *3:       | 70 cd/lux/m2 (White 0.2°/5°)  |
|                        | 50 cd/lux/m2 (White 0 33°/5°) |



#### **Example of Product Application**







\*7 If you would like to know the suitable inks and foils, please contact to our technical service

The quadrating of general reflected by Thick type of Southeract, Superplanation of the absoluted souther, Southeract, Southeract, Southeract, When proper substrates are used, and their surface preparation and application methods are in accordance with Nikkalite\* Bullet 33 Reflectivity is the minimum value. "4 Except for Orange." 55 Colours may not be a 100% colour match of the actual material. "61 If you would like to know the detail of printability, please contact to our technical service.

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### Conspicuity Market

#### Super High Intensity Prism type

## Crystal Grade CW 92000 series

CW 92000 series is used for emergency vehicle conspicuity etc with excellent retroreflection performance during the hours of darkness, high conspicuity during twilight hours of fluorescent colours and high daytime contrast colours.

Screen printing available \*6

| Top film:              | Acrylic Film                   |
|------------------------|--------------------------------|
| Durability *1:         | 10 years *2                    |
| Recommended substrate: | Aluminium                      |
| Reflectivity *3:       | 350 cd/lux/m2,(White 0.2°/5°)  |
|                        | 150 cd/lux/m2 (White 0.33°/5°) |

Sample colours \*5



#### Prism type (Metallized)

## Crystal Grade CM 96000 series / CE 93000 series

CM 96000 series and CE 93000 series are flexible enough to go around corners used for vehicle conspicuity etc with excellent retroreflection performance.

| Top film:              | Acrylic Film                       |  |
|------------------------|------------------------------------|--|
| Durability *1:         | CM: 7 years                        |  |
|                        | CE: 5-7 years                      |  |
| Recommended substrate: | Aluminium                          |  |
| Reflectivity *3:       | CM: 500 cd/lux/m2 (White 0.2°/5°)  |  |
|                        | CE: 450 cd/lux/m2 (White 0.33°/5°) |  |

CE 93000 series is complied with ECE104 regulation

### Sample colours \*5



#### Enclosed lens type

# Fleet Marking Grade FMG M8500 series

FMG M8500 series is flexible enough to go around corners used for vehicle conspicuity etc.

| Top film:              | PVC Film                     | _ 5 |
|------------------------|------------------------------|-----|
| Durability *1:         | 5 years                      |     |
| Recommended substrate: | Aluminium                    |     |
| Reflectivity *3:       | 70 cd/lux/m2 (White 0.2°/5°) |     |

Screen printing available \*6

#### Sample colours \*5

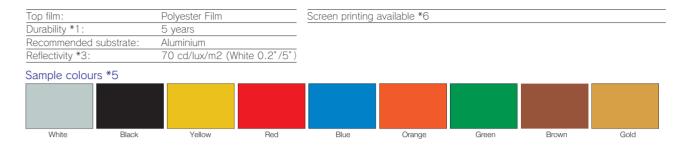






#### Enclosed lens type

# Flexible Engineering Grade ELG 48000 series ELG 48000 series ELG 48000 series is flexible enough to go around corners used for vehicle conspicuity etc.



### Accessories

#### Overlay Film

Top film:

## Acrylic Film 100 series

100 series is used for various types of traffic signs with highly transparent and adhesion to all Nikkalite™ retroreflective sheeting.

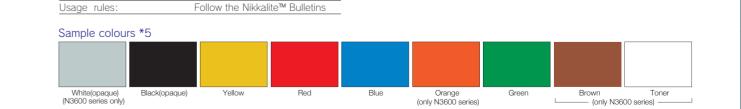
| Durability ^ 1:        |        | 10 years                            |      |        |       |       |             |
|------------------------|--------|-------------------------------------|------|--------|-------|-------|-------------|
| Recommended substrate: |        | Nikkalite™ retroreflective sheeting |      |        |       |       |             |
| Sample colours         | *5     |                                     |      |        |       |       |             |
|                        |        |                                     |      |        |       |       |             |
|                        |        |                                     |      |        |       |       |             |
|                        |        |                                     |      |        |       |       |             |
| Black(opaque)          | Yellow | Red                                 | Blue | Orange | Green | Brown | Transparent |

Recommended substrate:

## Post-screen Printing N3800 series / Pre-screen Printing N3600 series

Nikkalite™ retroreflective sheeting

N3800 series and N3600 series are used for various types of traffic signs with highly transparent and long-term durability.



<sup>\*1</sup> The durability is greatly effected by 1)the type of substrate, 2)preparation of the substrate surface, 3)conditions of application and 4)climatic and expo When proper substrates are used, and their surface preparation and application methods are in accordance with Nikkalite<sup>M</sup> Bulletins.
\*5 Reflectivity is the minimum value. \*5 Colours may not be a 100% colour match of the actual material.
\*6 If you would like to know the detail of printability, please contact to our technical service.