



# New Guard Coatings Group

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[www.newguardcoatings.com](http://www.newguardcoatings.com)

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# NU-KLAD™ SL

## DESCRIPTION

Three-component, solvent-free, self-leveling epoxy floor coating

## PRINCIPAL CHARACTERISTICS

- Suitable for industrial areas with heavy traffic
- Excellent abrasion resistance
- Excellent resistance against hot tires
- Suitable for use with anti-skid

## COLOR AND GLOSS LEVEL

- A wide range of colors
- Gloss

Note: Epoxies will chalk and change color with exterior exposure. Colors are approximately and will tend to change over time.

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
<b>Number of components</b>	Three
<b>Mass density</b>	1.6 kg/l (13.7 lb/US gal)
<b>Volume solids</b>	100%
<b>VOC (Supplied)</b>	UK PG 6/23(92) Appendix 3: max. 0.0 g/l (approx. 0.0 lb/US gal)
<b>Recommended dry film thickness</b>	2000 µm (80.0 mils)
<b>Theoretical spreading rate</b>	Approx. 3.3 kg/m <sup>2</sup> for 2000 µm (0.06 lb/ft <sup>2</sup> for 80 mils) See notes
<b>Dry to touch</b>	24 hours
<b>Overcoating Interval</b>	Minimum: 24 hours Maximum: 7 days
<b>Full cure after</b>	7 days
<b>Shelf life</b>	Base: at least 12 months when stored cool and dry Hardener: at least 12 months when stored cool and dry Filler: at least 36 months when stored cool and dry

### Notes:

- The spreading rate is depending on the roughness of the substrate
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

# NU-KLAD™ SL

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

### Primed concrete

- Suitable primer must be dry and free from any contamination
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### Coated concrete

- Existing sound coating systems; sufficiently roughened, dry and cleaned
  - To ensure compatibility, rub the existing coating with a cloth with Xylene or MEK for 10 seconds, and remove existing coatings if dissolving occurs
  - Rough surface; eventually abraded by power tool or diamond abrading tool
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### Substrate temperature and application conditions

- Ambient temperature during application and curing should be between 10°C (50°F) and 25°C (77°F)
  - Relative humidity during application and curing should not exceed 85%
  - Substrate temperature during application and curing should be between 10°C (50°F) and 30°C (86°F)
  - Substrate temperature during application should be at least 5°C (7°F) above dew point
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## SYSTEM SPECIFICATION

### Standard system

- NU-KLAD SL: 1 x 2000 µm (80.0 mils) on top of primed concrete
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### Fully sprinkled anti-skid system

- NU-KLAD SL: 1 x 2000 µm (80.0 mils) on top of primed concrete
- Anti-skid fully sprinkled

Note: In case of fully sprinkled an extra layer of SIGMADUR 520 or SIGMADUR 550 can be applied for a better aesthetical appearance

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## INSTRUCTIONS FOR USE

### Mixing ratio by weight: base to hardener to filler 14:3.1:7.9

- Material temperature should be between 10°C (50°F) and 20°C (68°F)
  - Mix base and hardener with a variable-speed mechanical mixer thoroughly for 1 minute
  - Add the filler while stirring and stir thoroughly for 2 minutes
  - Pour the mixture into another can and mix for 2 minutes, until homogeneous
  - The speed of the mixer should not exceed 800 rpm to avoid air entrapment
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### Induction time

None

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# NU-KLAD™ SL

## Pot life

25 minutes at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

## Anti-skid system

- Apply NU-KLAD SL: 1 x 2000 µm on top of primed concrete
- Fully sprinkle anti-skid in the wet layer
- Remove excess of anti-skid after drying
- An extra layer of 50 µm SIGMADUR 520 or SIGMADUR 550 can be applied for a better aesthetical appearance

## Trowel / Swedish knife

- Pour an appropriate amount of mixture on the primed concrete and spread it evenly by trowel or Swedish knife
- Use a spiked roller to avoid air entrapment

## Recommended thinner

No thinner should be added

## Cleaning solvent

THINNER 90-53

## ADDITIONAL DATA

Overcoating interval for DFT up to 2000 µm (80.0 mils)				
Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	25°C (77°F)
itself	Minimum	36 hours	24 hours	16 hours
	Maximum	7 days	7 days	7 days
polyurethane topcoat	Minimum	48 hours	36 hours	24 hours
	Maximum	3 days	3 days	3 days

### Notes:

- Surface should be dry and free from any contamination
- For intervals exceeding the maximum overcoating interval, the surface has to be roughened sufficiently before overcoating

Curing time for DFT up to 2000 µm (80.0 mils)			
Substrate temperature	Dry to walk on	Light impact/abrasion	Full cure
10°C (50°F)	36 hours	36 hours	14 days
20°C (68°F)	24 hours	24 hours	7 days
25°C (77°F)	16 hours	16 hours	5 days

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Pot life (at application viscosity)	
Mixed product temperature	Pot life
10°C (50°F)	35 minutes
20°C (68°F)	25 minutes
25°C (77°F)	15 minutes

## SAFETY PRECAUTIONS

- Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with Product Data/Application Instruction and Material Safety Data Sheet must be observed during all storage, handling, use and drying periods

## WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

## REFERENCES

- |                                      |                   |      |
|--------------------------------------|-------------------|------|
| • CONVERSION TABLES                  | INFORMATION SHEET | 1410 |
| • EXPLANATION TO PRODUCT DATA SHEETS | INFORMATION SHEET | 1411 |

## WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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