

# NU-KLAD™ COATING

## DESCRIPTION

Two-component, solvent-free, high-build epoxy floor coat

## PRINCIPAL CHARACTERISTICS

- Suitable for industrial areas with frequent traffic
- Good abrasion resistance
- Excellent resistance against hot tires
- Can be overcoated with a polyurethane topcoat for aesthetic durability
- Suitable for use with anti-skid

## COLOR AND GLOSS LEVEL

- A wide range of colors
- Gloss

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.3 kg/l (10.5 lb/US gal)
Volume solids	97 ± 2%
VOC (Supplied)	UK PG 6/23(92) Appendix 3: max. 27.0 g/l (approx. 0.2 lb/US gal)
Recommended dry film thickness	350 µm (14.0 mils)
Theoretical spreading rate	2.8 m <sup>2</sup> /l for 350 µm (111 ft <sup>2</sup> /US gal for 14.0 mils)
Overcoating Interval	Minimum: 18 hours Maximum: 7 days
Dry to walk on	18 hours
Full cure after	7 days
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 12 months when stored cool and dry

Notes:

- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

### Primed concrete

- Suitable primer must be dry and free from any contamination



# NU-KLAD™ COATING

## **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

---

## **Substrate temperature and application conditions**

- Ambient temperature during application and curing should be between 10°C (50°F) and 30°C (86°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

---

## **SYSTEM SPECIFICATION**

### **Standard system**

- NU-KLAD COATING: 1 x 350 µm (14.0 mils) on top of primed concrete

### **Anti-skid system**

- NU-KLAD COATING: 1 x 350 µm (14.0 mils) on top of primed concrete
- Anti-skid openly or 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

---

## **INSTRUCTIONS FOR USE**

### **Mixing ratio by volume: base to hardener 58.2:41.8; Mixing ratio by weight: base to hardener 66.3:33.7**

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

---

### **Induction time**

None

---

### **Pot life**

30 minutes at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life



# NU-KLAD™ COATING

## Anti-skid system

- Apply NU-KLAD COATING: 1 x 350 µm (14.0 mils) on top of primed concrete
- Sprinkle anti-skid in the wet layer (open or full)

## Openly sprinkled anti-skid system

- Roll again with the wet roller immediately after sprinkling

## Fully sprinkled anti-skid system

- 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

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

## Recommended thinner

No thinner should be added

## Cleaning solvent

THINNER 90-53

## ADDITIONAL DATA

Overcoating interval for DFT up to 350 µm (14.0 mils)				
Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	32 hours	18 hours	10 hours
	Maximum	7 days	7 days	5 days
polyurethane topcoat	Minimum	48 hours	28 hours	16 hours
	Maximum	6 days	6 days	4 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 350 µm (14.0 mils)			
Substrate temperature	Dry to walk on	Light impact/abrasion	Full cure
10°C (50°F)	32 hours	36 hours	12 days
20°C (68°F)	18 hours	20 hours	7 days
30°C (86°F)	10 hours	12 hours	5 days

Note: Adequate ventilation must be maintained during application and curing



# NU-KLAD™ COATING

Pot life (at application viscosity)	
Mixed product temperature	Pot life
10°C (50°F)	60 minutes
20°C (68°F)	30 minutes
30°C (86°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.

## LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at [www.ppgpmc.com](http://www.ppgpmc.com). The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.

