

# New Guard Coatings Group

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# NU-KLAD™ IMP

## DESCRIPTION

Two-component, solvent-free, impregnating epoxy floor primer

## PRINCIPAL CHARACTERISTICS

- Primer for NU-KLAD floor coating systems
- Excellent impregnating properties (penetration and saturation of the concrete)

## COLOR AND GLOSS LEVEL

- Semi-transparent, gray
- Semi-gloss

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.2 kg/l (9.9 lb/US gal)
Volume solids	100%
VOC (Supplied)	UK PG 6/23(92) Appendix 3: max. 0.0 g/l (approx. 0.0 lb/US gal)
Recommended dry film thickness	See note
Overcoating Interval	Minimum: 16 hours Maximum: 7 days
Dry to walk on	16 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:

- The dry film thickness and spreading rate are depending on the absorption capability coming from the roughness and porosity of the concrete
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

### Concrete

- Dried for at least 28 days in good ventilation conditions
- Moisture content should not exceed 4.5%
- Concrete must be sound, dry, free from laitance and any contamination
- Rough surface; eventually abraded by power tool or diamond abrading tool



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## **Substrate temperature**

- 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
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## **SYSTEM SPECIFICATION**

- Use one layer up to saturation of the concrete. A second layer is recommended in case the aspect of the first layer is not homogeneous with matt/bright effect caused by difference of absorption in the concrete.
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## **INSTRUCTIONS FOR USE**

### **Mixing ratio by volume: base to hardener 69.6:30.4 (mixing ratio by weight: base to hardener 74:26)**

- Material temperature should be between 10°C (50°F) and 30°C (86°F)
  - Mix base and hardener with a mechanical mixer thoroughly for 3 minutes until homogeneous
  - Pour the mixture into another can and mix for 1 minute
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### **Induction time**

None

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### **Pot life**

40 minutes at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

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### **Trowel**

- Plastering trowel for rough, strong absorbing substrates

### **Recommended thinner**

No thinner should be added

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### **Brush/roller**

- For smooth, normal absorbing substrates

### **Recommended thinner**

No thinner should be added

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### **Cleaning solvent**

THINNER 90-53

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## ADDITIONAL DATA

Overcoating interval for DFT up to 50 µm (2.0 mils)				
Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself, NU-KLAD COATING, NU-KLAD SL or NU-KLAD HD	Minimum	30 hours	16 hours	8 hours
	Maximum	7 days	7 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
- Abrading is recommended in case of insufficient roughness after curing

Curing time for DFT up to 50 µm (2.0 mils)			
Substrate temperature	Dry to walk on	Light impact/abrasion	Full cure
10°C (50°F)	30 hours	34 hours	14 days
20°C (68°F)	16 hours	18 hours	7 days
30°C (86°F)	8 hours	10 hours	4 days

Note: Adequate ventilation must be maintained during application and curing

Pot life (at application viscosity)	
Mixed product temperature	Pot life
10°C (50°F)	1 hour
20°C (68°F)	40 minutes
30°C (86°F)	20 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.



# NU-KLAD™ IMP

## REFERENCES

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

## WARRANTY

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