

New Guard Coatings Group

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NU-KLAD™ BASIC

DESCRIPTION

Two-component, solvent-borne epoxy floor coating

PRINCIPAL CHARACTERISTICS

- Suitable for industrial areas with occasional light traffic
- Fast return to service
- Good abrasion resistance
- Can be overcoated with a polyurethane topcoat for aesthetic durability
- Suitable for use with anti-skid
- A thinned version can be used as a primer for application directly on concrete

COLOR AND GLOSS LEVEL

- A wide range of colors
- Semi-gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.4 kg/l (11.7 lb/US gal)
Volume solids	72 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 263.0 g/kg max. 361.0 g/l (approx. 3.0 lb/US gal)
Recommended dry film thickness	50 - 150 µm (2.0 - 6.0 mils)
Theoretical spreading rate	5.8 m ² /l for 125 µm (231 ft ² /US gal for 5.0 mils)
Overcoating Interval	Minimum: 6 hours Maximum: 21 days
Dry to walk on	6 hours
Full cure after	7 days
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 24 months when stored cool and dry

Notes:

- See ADDITIONAL DATA - Spreading rate and film thickness
- See ADDITIONAL DATA - Overcoating intervals
- See ADDITIONAL DATA - Curing time

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions of concrete for thinned version

- 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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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 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

Standard system

- NU-KLAD BASIC: 1 x 125 µm (5.0 mils) on top of primed concrete
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Openly sprinkled anti-skid system

- NU-KLAD BASIC: 1 x 125 µm (5.0 mils) on top of primed concrete
- Anti-skid openly or fully sprinkled

Note: In case of fully sprinkled an extra layer of 50 µm (2.0 mils) NU-KLAD BASIC, SIGMADUR 520 or SIGMADUR 550 can be applied for a better aesthetical appearance

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 80:20; Mixing ratio by weight: base to hardener 86.2:13.8

- Material temperature should be between 10°C (50°F) and 30°C (86°F)
 - Mix base and hardener with a mechanical mixer thoroughly until homogeneous
 - The thinner should be added after mixing the two components
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Induction time

None



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Pot life

3 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

Anti-skid system

- Apply NU-KLAD BASIC: 1 x 125 µm (5.0 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 NU-KLAD BASIC, SIGMADUR 520 or SIGMADUR 550 can be applied for a better aesthetical appearance

Airless spray

Recommended thinner

THINNER 91-92

Volume of thinner

10 - 15% when applied as a primer direct to concrete; 0 - 5% when applied on primed concrete

Brush/roller

Recommended thinner

THINNER 91-92

Volume of thinner

10 - 15% when applied as a primer direct to concrete; 0 - 5% when applied on primed concrete

Cleaning solvent

THINNER 90-53

ADDITIONAL DATA

Spreading rate and film thickness	
DFT	Theoretical spreading rate
75 µm (3.0 mils)	9.6 m ² /l (385 ft ² /US gal)
125 µm (5.0 mils)	5.8 m ² /l (231 ft ² /US gal)



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Overcoating interval for DFT up to 125 µm (5.0 mils)				
Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	9 hours	6 hours	4 hours
	Maximum	1 month	21 days	14 days
polyurethane topcoat	Minimum	30 hours	18 hours	10 hours
	Maximum	21 days	14 days	7 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 125 µm (5.0 mils)			
Substrate temperature	Dry to walk on	Light impact/abrasion	Full cure
10°C (50°F)	9 hours	16 hours	12 days
20°C (68°F)	6 hours	12 hours	7 days
30°C (86°F)	4 hours	8 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)	5 hours
20°C (68°F)	3 hours
30°C (86°F)	2 hours

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™ BASIC

REFERENCES

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

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