New Guard Coatings Group

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April 18, 2018 (Revision of January 12, 2015)

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^2/l for 350 µm (111 ft^2/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

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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

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

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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

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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

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