



New Guard Coatings Group

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NU-KLAD™ HD

DESCRIPTION

Four-component, solvent-free, self-leveling, antiskid epoxy floor coating

PRINCIPAL CHARACTERISTICS

- Ultimate solution for high-abrasion flooring requirements
- Excellent dry and wet antiskid properties
- Excellent abrasion resistance
- Excellent resistance against hot tires

COLOR AND GLOSS LEVEL

- Depending on used antiskid aggregate
- Flat

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Three + aggregates
Mass density	1.8 kg/l (15.0 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	2000 - 4000 µm (80.0 - 160.0 mils)
Theoretical spreading rate	Approx. 1.8 kg/m ² for 2000 µm (0.37 lb/ft ² for 80 mils) without aggregates Approx. 3.6 kg/m ² for 2000 µm (0.74 lb/ft ² for 80 mils) with aggregates
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 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 - 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
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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

- NU-KLAD HD: 1 x 2000 - 4000 µm (80.0 - 160.0 mils) on top of primed concrete
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INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener to filler 37:26.5:36.5; Mixing ratio by weight: base to hardener to filler 35:15:50

- 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
 - The speed of the mixer should not exceed 800 rpm to avoid air entrapment
 - Add the prescribed amount of filler into the mixer and mix for 4 minutes
 - Pour the mixture into another can and mix for 1 minute, until homogeneous
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Induction time

None

Pot life

1 hour at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life



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Trowel

- Pour a calculated amount of the mixture in strips
- Spread it immediately by use of a steel trowel or Swedish knife and level to the intended thickness
- Use a spiked roller to avoid air entrapment
- Sprinkle the mineral anti-slip aggregate in the wet floor coating
- Apply NU-KLAD HD to the connecting area
- At the same time give a full sprinkle of anti-slip aggregate to the previous area
- Follow this procedure for all areas
- Remove excess of anti-slip aggregate after curing

Recommended thinner

No thinner should be added

Notes:

- Different grades of anti-skid aggregate may be used, depending on the intended anti-skid properties
- The mineral anti-skid aggregate should be dry, clean and free from any organic contamination

Cleaning solvent

THINNER 90-53

ADDITIONAL DATA

Curing time for DFT up to 4000 µm (160.0 mils)

Substrate temperature	Dry to walk on	Resistant to traffic	Full cure
10°C (50°F)	24 hours	3 days	14 days
20°C (68°F)	16 hours	36 hours	7 days
30°C (86°F)	12 hours	24 hours	3 days

Pot life (at application viscosity)

Mixed product temperature	Pot life
10°C (50°F)	100 minutes
20°C (68°F)	65 minutes
30°C (86°F)	30 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

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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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