

NU-KLAD™ SL

DESCRIPTION

Three-component, solvent-free, self-leveling epoxy floor coating

PRINCIPAL CHARACTERISTICS

- Suitable for industrial areas with heavy traffic
- Excellent abrasion resistance
- Excellent resistance against hot tires
- Suitable for use with anti-skid

COLOR AND GLOSS LEVEL

- A wide range of colors
- Gloss

Note: Epoxies will chalk and change color with exterior exposure. Colors are approximately and will tend to change over time.

BASIC DATA AT 20°C (68°F)

| Data for mixed product | |
|--------------------------------|---|
| Number of components | Three |
| Mass density | 1.6 kg/l (13.7 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 µm (80.0 mils) |
| Theoretical spreading rate | Approx. 3.3 kg/m ² for 2000 µm (0.06 lb/ft ² for 80 mils) See notes |
| Dry to touch | 24 hours |
| Overcoating Interval | Minimum: 24 hours Maximum: 7 days |
| 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 – Overcoating intervals
- See ADDITIONAL DATA – Curing time

NU-KLAD™ SL

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 25°C (77°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 SL: 1 x 2000 µm (80.0 mils) on top of primed concrete
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Fully sprinkled anti-skid system

- NU-KLAD SL: 1 x 2000 µm (80.0 mils) on top of primed concrete
- Anti-skid 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 weight: base to hardener to filler 14:3.1:7.9

- Material temperature should be between 10°C (50°F) and 20°C (68°F)
 - Mix base and hardener with a variable-speed mechanical mixer thoroughly for 1 minute
 - Add the filler while stirring and stir thoroughly for 2 minutes
 - Pour the mixture into another can and mix for 2 minutes, until homogeneous
 - The speed of the mixer should not exceed 800 rpm to avoid air entrapment
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Induction time

None

NU-KLAD™ SL

Pot life

25 minutes at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

Anti-skid system

- Apply NU-KLAD SL: 1 x 2000 µm on top of primed concrete
- Fully sprinkle anti-skid in the wet layer
- 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 / Swedish knife

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

Recommended thinner

No thinner should be added

Cleaning solvent

THINNER 90-53

ADDITIONAL DATA

| Overcoating interval for DFT up to 2000 µm (80.0 mils) | | | | |
|--|----------|-------------|-------------|-------------|
| Overcoating with... | Interval | 10°C (50°F) | 20°C (68°F) | 25°C (77°F) |
| itself | Minimum | 36 hours | 24 hours | 16 hours |
| | Maximum | 7 days | 7 days | 7 days |
| polyurethane topcoat | Minimum | 48 hours | 36 hours | 24 hours |
| | Maximum | 3 days | 3 days | 3 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

NU-KLAD™ SL

| Curing time for DFT up to 2000 µm (80.0 mils) | | | |
|---|----------------|-----------------------|-----------|
| Substrate temperature | Dry to walk on | Light impact/abrasion | Full cure |
| 10°C (50°F) | 36 hours | 36 hours | 14 days |
| 20°C (68°F) | 24 hours | 24 hours | 7 days |
| 25°C (77°F) | 16 hours | 16 hours | 5 days |

| Pot life (at application viscosity) | |
|-------------------------------------|------------|
| Mixed product temperature | Pot life |
| 10°C (50°F) | 35 minutes |
| 20°C (68°F) | 25 minutes |
| 25°C (77°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

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NU-KLAD™ SL

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