

# 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 <sup>2</sup> for 2000 µm (0.37 lb/ft <sup>2</sup> for 80 mils) without aggregates<br>Approx. 3.6 kg/m <sup>2</sup> for 2000 µm (0.74 lb/ft <sup>2</sup> 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<br>Hardener: at least 12 months when stored cool and dry<br>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

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## **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 |

## WARRANTY

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