

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

NU-KLAD™ HD

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

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

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
-

Induction time

None

Pot life

1 hour at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life



NU-KLAD™ HD

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

NU-KLAD™ HD

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

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.

