New Guard Coatings Group

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uksales@newguardcoatings.com

+44 1937 586311

Global Head Office: New Guard Coatings Ltd, Sandbeck Way, Wetherby, Leeds, LS22 7DN

IPS Industrial Paint Supplies (Hull) Ltd. EMPSL Ace Coatings South ARCON

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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/m² for 2000 µm (0.06 lb/ft² 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

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Primed concrete

- Suitable primer must be dry and free from any contamination

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 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

SYSTEM SPECIFICATION

Standard system

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

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

Induction time

None

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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

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

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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

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