NU-KLAD™ AQUA

DESCRIPTION

Two-component, waterborne epoxy floor coating

PRINCIPAL CHARACTERISTICS

- Suitable for industrial areas with occasional light traffic
- Fast return to service
- Good abrasion resistance
- Can be overcoated with a polyurethane topcoat for aesthetic durability
- Suitable for use with anti-skid
- A thinned version can be used as a primer for application directly on concrete

COLOR AND GLOSS LEVEL

- A wide range of colors
- Flat

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.3 kg/l (10.8 lb/US gal)
Volume solids	53 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 5.0 g/kg max. 6.0 g/l (approx. 0.1 lb/US gal)
Recommended dry film thickness	60 - 100 µm (2.4 - 4.0 mils)
Theoretical spreading rate	8.8 m^2/l for 60 µm (354 ft^2/US gal for 2.4 mils) 5.3 m^2/l for 100 µm (213 ft^2/US gal for 4.0 mils)
Overcoating Interval	Minimum: 5 hours Maximum: 21 days
Dry to walk on	5 hours
Full cure after	7 days
Shelf life	Base: at least 6 months when stored cool and dry Hardener: at least 6 months when stored cool and dry

Notes:
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions of concrete for thinned version

- Dried for at least 28 days in good ventilation conditions
- Moisture content should not exceed 4.5%
- Concrete must be sound, dry, free from laitance and any contamination
- Rough surface; eventually abraded by power tool or diamond abrading tool

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 75%
- 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 AQUA: 2 x 60 µm (2.4 mils) on top of primed concrete

Anti-skid system

- NU-KLAD AQUA: 1 x 60 µm (2.4 mils) on top of primed concrete
- Anti-skid openly or fully sprinkled
- NU-KLAD AQUA: 1 x 60 µm (2.4 mils)

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 70:30; Mixing ratio by weight: base to hardener 75:25 (3:1)

- Material temperature should be between 10°C (50°F) and 30°C (86°F)
- Mix base and hardener with a mechanical mixer thoroughly until homogeneous
- Tap water for thinning should be added after mixing the two components

Induction time

None

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Pot life
3 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

Anti-skid system
- Apply NU-KLAD AQUA: 1 x 60 µm (2.4 mils) on top of primed concrete
- Sprinkle anti-skid in the wet layer (open or full)
- Remove excess of anti-skid before overcoating, in case of fully sprinkled
- Apply the second coat of NU-KLAD AQUA: 1 x 60 µm (2.4 mils) by roller on top of the anti-skid

Airless spray

Recommended thinner
Tap water

Volume of thinner
10 - 15% when applied as a primer direct to concrete; 0 - 5% when applied on primed concrete

Brush/roller

Volume of thinner
10 - 15% when applied as a primer direct to concrete; 0 - 5% when applied on primed concrete

Cleaning solvent
Tap water

Notes:
- An adequate cleaning procedure should be used in case of changing from solvent-borne paint to waterborne paints or from waterborne paints to solvent-borne paints
- THINNER 90-53 can be used if necessary

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ADDITIONAL DATA

Overcoating interval for DFT up to 100 µm (4.0 mils)				
Overcoating with...	**Interval**	**10°C (50°F)**	**20°C (68°F)**	**30°C (86°F)**
itself	Minimum	12 hours	5 hours	4 hours
	Maximum	21 days	21 days	21 days
polyurethane topcoat	Minimum	48 hours	24 hours	16 hours
	Maximum	5 days	5 days	5 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 100 µm (4.0 mils)			
Substrate temperature	**Dry to walk on**	**Light impact/abrasion**	**Full cure**
10°C (50°F)	12 hours	30 hours	12 days
20°C (68°F)	5 hours	16 hours	7 days
30°C (86°F)	4 hours	10 hours	4 days

Note: Adequate ventilation must be maintained during application and curing

Pot life (at application viscosity)	
Mixed product temperature	**Pot life**
10°C (50°F)	4 hours
20°C (68°F)	3 hours
30°C (86°F)	2 hours

SAFETY PRECAUTIONS

- Although this is a solvent-free paint, care should be taken to avoid inhalation of spray mist, as well as contact between the wet paint and exposed skin or eyes
- 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

REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411

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