

CNSL-BASED COATINGS GUIDE FORMULATIONS



SOLVENT FREE FLOOR PRIMERS WITH PHENALKAMINE NX-6019

- No solvent needed due to low viscosity
- Excellent adhesion to dry and wet concrete
- Fast cure and hardness development even at lower temperatures
- No blush on surface for excellent intercoat adhesion
- Other related products for floor coatings:
Solvent free: NC-558/NC-658, NX-2003(D), NX-5454(NS),
GX-6013, NX-5140
Waterborne: NX-8101
Top coats: NX/UL 2009(H)
Diluents: NC/UL 513

BIO-BASED EPOXY CURING
AGENTS

AMBIENT-CURE
EPOXY COATINGS

FLOOR PRIMERS AND
SELF-LEVELERS

Guide Formulation

Ingredients	Formulation 1 (Parts by weight)
Part A	
DER 353 ¹ (EEW=190, Bis A/F epoxy with C12-C14 diluent)	98.80
BYK 085 ² (defoamer)	0.30
BYK A 501 ² (defoamer)	0.30
BYK 361N ² (leveling agent)	0.60
Total	100.00
Part B	
NX-6019(NS) ³ (Curing Agent)	67.40

¹Olin Epoxy ²BYK ³Cardolite

NX-6019(NS) Properties (Reference)

Properties	NX-6019
Color (Gardner)	≤14
Viscosity at 25°C (cPs)	800-1400
Amine Value (mg KOH/g)	260-300
Gel time (EEW 190) at 70phr	15-30 min

Formulation Properties

Properties	Formulation 1
VOC (gm/l)	0
% vol NVM	100
% wt NVM	100
Amine/Epoxy	1.00

Formulation Performance

Performance Tests	Formulation 1
Direct impact (in-lb)	62
Reverse impact (in-lb)	58
Mandrel Bend	1/8"
ShoreD Hardness (Day 1/3)	
25°C	72/75
10°C	55/75

PROCESSING

Mix the two defoamers into liquid epoxy resin in a metal vessel with slow speed agitation, gradually increase agitation speed to middle speed to obtain uniform mixture. Turn off agitation before adding the leveling agent, again increase agitation speed gradually for further mixing until the uniform mixture is obtained.

Please refer to each supplier's material safety data sheet (MSDS) for the most current safety and handling information.

DISCLAIMER

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