

# CNSL-BASED ADHESIVES GUIDE FORMULATIONS

## HYDROTHERMAL AGING RESISTANT 2K EPOXY ADHESIVE WITH NX-5454 PHENALKAMINE

- Fast strength development
- High bond strength
- Outstanding resistance to hot water immersion

### BIO-BASED EPOXY CURING AGENTS

#### LOW AND AMBIENT-CURE REACTIVE ADHESIVES

#### INFRASTRUCTURE, REPAIR, BUILDING AND CONSTRUCTION

### Guide Formulation

Ingredients	PART A Parts by weight	PART B Parts by weight
Epoxy resin (EEW=190)	60	
NX-5454 (Phenalkamine) <sup>1</sup>		30
AEP		30
Silica powder 400 mesh	35.5	34.5
Cellulose powder	2	2
Fumed silica HB-380 <sup>2</sup>	2.5	2.5
Coupling agent KH-550 <sup>3</sup>		1
Total	100	100

<sup>1</sup> Cardolite <sup>2</sup> Guangzhou GBS High-Tech & Industry Co., Ltd <sup>3</sup> WD silicone

### Typical Properties

Properties	Formulation 1
Cure condition	40°C/16hr
Substrate	Sand blasted steel
Mix ratio A/B	2:1
Lap shear strength, MPa	19
Lap shear strength after 80°C/7day exposure, MPa	24

## PROCESSING

All liquid components are blended together with a high shear mixer. Then any solid components are added separately and blended into the liquid after each addition. The product is generally degassed after mixing and before packaging.

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

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