



TECHNICAL BULLETIN #3062 – INSULCAST 101
AMBIENT TEMPERATURE CURING EPOXY SYSTEM

Revised: 05/2018

PRODUCT DESCRIPTION

INSULCAST 101 is an ambient temperature curing, two-component epoxy system with excellent chemical resistance to a broad range of environments such as acids, organic solvents and bases.

PHYSICAL PROPERTIES

	Part A	Part B
COLOR, VISUAL	Neutral	Black
VISCOSITY, 25°C, cps	16,000	5,000
SPECIFIC GRAVITY, 25°C g/cm³:	1.30	1.39
MIX RATIO (by weight)	1:1	
MIX RATIO (by volume)	1:0.94	
MIXED VISCOSITY, 25°C, cps	10,000	
POT LIFE, 25°C, 100 gram mass	45 minutes	
CURE TIME, 25°C	2-3 days	
HARDNESS, 25°C, Shore D	80	
ACID RESISTANCE, 38% Sulfuric 160°F, 14 days, Weight Gain	3.8%	

USE INSTRUCTIONS

1. Premix contents of each container before use to ensure uniformity. Some slight settling may occur, but it will be soft and easily reincorporated.
2. Measure out equal weights of each component and mix together thoroughly. Be careful to scrape sides and bottom of container to incorporate all unmixed material, or serious loss of physical and electrical properties will result.
3. Pour into cavity or mold and allow to cure at room temperature. To accelerate cure, allow 2 hours at room temperature, then 130°F for two hours.

IMPORTANT:

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HEALTH CAUTION:

Avoid breathing possible fumes, mists and vapors which can cause severe respiratory damage. Use of NIOSH approved breathing apparatus is required for more than minimal exposure. Always work in areas with adequate ventilation to allow dissipation of polyamine and other chemical fumes, and where applicable, solvent fumes. Use of goggles, protective garments, rubber gloves, protective cream is required. If material gets into eyes, flush thoroughly with clean water for twenty (20) minutes; then seek medical treatment. Avoid skin contact. Material can cause contact dermatitis. Always wash exposed areas immediately, using warm water and soap, followed by rinsing with clean water. Observe all safety precautions. It is important when using solvent based materials or solvents to keep away from open flame or ignition source.

PLEASE REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER FIRST AID INFORMATION. FOR CHEMICAL EMERGENCY, CALL CHEMTREC (DAY OR NIGHT) 800 424-9300.