

MATERIAL SAFETY DATA SHEET

SECTION I

EFFECTIVE DATE: 09-23-87

DISTRIBUTOR: Hardcast, Inc.		EMERGENCY TELEPHONE NO. 214-442-6545
ADDRESS (Number, Street, City, State and ZIP Code) 903 W. Kirby Wyllie, TX 75098		
CHEMICAL FAMILY: Acrylic Emulsion Based Sealant	TRADE NAME AND SYNONYMS 601 Iron Grip	
		FORMULA Proprietary Mixture

SECTION II - HAZARDOUS INGREDIENTS

% TLV (Units)

	C.A.S. Number	%	TLV (Units)
Methanol	67-56-1	0.23	200ppm
1,1,1-Trichloroethane	71-55-6	2.95	350ppm 8hrT
Ethylene Glycol	107-21-1	0.81	50ppm
Ammonium hydroxide (29%)	1136-21-6	0.85	50ppm 8hr T
Carbon black / 2-butoxyethanol	1133-86-4 / 111-76-2	0.00	3.5mg/m3 25ppm
3-Iodo-2-Propynyl butyl carbamate	55406-53-6 EPA# 5383-63	0.04	Not estab.
2,4,7,9-Tetramethyl-5-decyne-4,7-diol/2-butoxyethanol	126-86-3 / 111-76-2	0.32	25ppm
2[(Hydroxymethyl)Amino]-2-methyl propanol	52299-20-4	0.12	Not estab.

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	212°F	SPECIFIC GRAVITY (H ₂ O=1)	1.35
VAPOR PRESSURE (mm Hg)	N/A	PERCENT VOLATILE BY WEIGHT (%)	25
VAPOR DENSITY (AIR=1)	> 1	EVAPORATION RATE (water =1)	> 1
SOLUBILITY IN WATER	Soluble		
APPEARANCE AND ODOR	Gray paste, slight ammonia odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None	FLAMMABLE LIMITS	LeI	UeI
			N/A	N/A
EXTINGUISHING MEDIA None needed, self extinguishing.				
SPECIAL FIRE FIGHTING PROCEDURES Self contained breathing apparatus may be needed. Nitrogen oxides and carbon monoxide may be involved.				
UNUSUAL FIRE AND EXPLOSION HAZARDS None				

NOTICE FROM HARDCAST, INC.

The data in this Material Safety Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
Contains 1,1,1-Trichloroethane (OSHA 29CFR 1910.1200 Subpart Z)-350ppm-8hr TWA.

EFFECTS OF OVEREXPOSURE
Possible nausea, vomiting, drowsiness, unconsciousness, damage to CNS and Cardiovascular system. At high temperatures, (272°C), toxic vapors may be emitted.

FIRST AID AND FIRST AID PROCEDURES
Inhalation - Remove victim to fresh air. If unconscious, administer CPR & call physician.
Ingestion - Do not induce vomiting. Call physician immediately. Eye contact - Flush thoroughly with copious amounts of water. Call a physician if irritation persists.
Absorption - Remove contaminated clothing & wash affected area with soap & water. If irritation persists, consult a physician.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		
	STABLE		
INCOMPATIBILITY (Materials to avoid)			
Materials that react with water, oxidizing agents and solvents.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Nitrogen oxides, carbon oxides.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		
	WILL NOT OCCUR		X

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Collect for disposal.

WASTE DISPOSAL METHOD

Dispose of in accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Type / Type) NIOSH approved Organic vapors respirator.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	
Needed	If needed to stay below TLV	OTHER
PROTECTIVE GLOVES Nitrile or Neoprene rubber.		EYE PROTECTION Always wear eye protection
OTHER PROTECTIVE EQUIPMENT		

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Keep containers closed, store away from heat and flames.
OTHER PRECAUTIONS