



Material Safety Data Sheet

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ArmorSeal® FLOOR-PLEX™ 7100 Water Based Epoxy Floor Coating B70-400

CAS No.	— Section 2 — Hazardous Ingredients (percent by weight)	ACGIH	OSHA	Units	LD50	LC50	Vapor	B70W401	B70A400	B70A401	B70R400	B70W410	B70V400	P E R C E N T B Y W E I G H T
		TLV <STEL>	PEL <STEL>		(Rat-Oral) mg/kg	(Rat) ppm/4hr.	Pressure mm	Part A White	Part A Haze Gray	Part A Deck Gray	Part A Tile Red	Part A - Primer Off White	Part B Hardener	
64742-94-5	Medium Aromatic Hydrocarbons.	NAv	NAv		NAv	NAv	0.1	3	3	3	3	1		
1569-01-3	1-Propoxy-2-propanol	NAv	NAv		2800	NAv	1.7	4	4	4	4			
2807-30-9 §	2-Propoxyethanol	NAv	NAv		3090	NAv	1.3	10	10	10	10	11	10	
Proprietary	Epoxy Polymer.	NAv	NAv		NAv	NAv							54	
Proprietary	Polyamine.	NAv	NAv		NAv	NAv		14	15	15	15	15		
14808-60-7	Quartz	0.05	0.1	mg/m3 as Resp. Dust	NAv	NAv			0.2	0.2	0.2	0.5		
14464-46-1	Cristobalite	0.05	0.05	mg/m3 as Resp. Dust	NAv	NAv						5		
14807-96-6	Talc	2	2	mg/m3 as Resp. Dust	NAv	NAv		9	16	23	19	6		
471-34-1	Calcium Carbonate.	10	15[5]	mg/m3 as Dust [Resp. Fraction]	NAv	NAv						7		
13463-67-7	Titanium Dioxide.	10	10[5]	mg/m3 as Dust [Resp. Fraction]	NAv	NAv		26	14	5	4	17		
1333-86-4	Carbon Black.	3.5	3.5	mg/m3	NAv	NAv		0 - 2	0.1	0.2	0.1			
	Weight per Gallon (lbs.)							11.51	10.64	10.27	10.69	12.24	9.00	
	Solids by Weight (%)							53.4	47.2	44.4	47.8	62.7	53.5	
	Solids by Volume (%)							32.9	30.0	28.9	30.4	43.1	48.6	
	Percent Water							29.0	34.2	37.3	33.3	23.6	36.5	
	pH							8.3	8.3	9.0	8.3	8.4	8.7	
	VOC (Volatile Organic Compounds) Emitted - lbs./gal.							2.03	1.97	1.88	2.01	1.67	0.90	
	VOC Less Water & Federally Exempt Solvents - lbs./gal.							3.39	3.52	3.49	3.52	2.57	1.48	
	Photochemically Reactive							Yes	No	No	No	No	No	
	Flash Point (°F)							135	132	145	132	135	None	
	DOL Storage Category							2	2	3A	2	2	NAp	
	Flammability Classification (Flammable - Combustible - Not Applicable)							Comb.	Comb.	Comb.	Comb.	Comb.	NAp	
	HMIS (NFPA) Rating (health - flammability - reactivity)							3* - 2 - 0	3* - 2 - 0	3* - 2 - 0	3* - 2 - 0	3* - 2 - 0	2* - 0 - 0	

§ Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C

→→→ MSDS Text Page Follows →→→

ArmorSeal® FLOOR-PLEX™ 7100 Water Based Epoxy Floor Coating B70-400

Section 3 — Hazards Identification

ROUTES OF EXPOSURE - Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. Alcohols and acetates can be absorbed through the skin. Follow recommendations for proper use, ventilation, and personal protective equipment to minimize exposure.

EFFECTS OF OVEREXPOSURE - Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE - Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE - May cause allergic skin reaction in susceptible persons.

CANCER INFORMATION - For complete discussion of toxicology data refer to Section 11.

Section 4 — First Aid Measures

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
If on SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

If SWALLOWED: Do not induce vomiting. Get medical attention immediately.

Section 5 — Fire Fighting Measures

FLASH POINT See TABLE	<i>LEL</i> 0.8	<i>UEL</i> 16.9
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FLAMMABILITY CLASSIFICATION - See TABLE

EXTINGUISHING MEDIA - Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS - Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES - Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 — Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - Remove all sources of ignition.

Ventilate the area. Remove with inert absorbent.

Section 7 — Handling and Storage

STORAGE CATEGORY - See TABLE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING - Keep away from heat and open flame. Consult NFPA Code. Use approved Bonding and Grounding procedures. Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Section 8 — Exposure Controls/Personal Protection

PRECAUTIONS TO BE TAKEN IN USE - Use only with adequate ventilation. Do not get in eyes or on skin. Avoid breathing vapor and spray mist. Wash hands after using.

These coatings may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m³ (total dust), 3 mg./m³ (respirable fraction), OSHA PEL 15 mg./m³ (total dust), 5 mg./m³ (respirable fraction).

VENTILATION - Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION - If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES - Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION - Wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT - Use of barrier cream on exposed skin is recommended.

OTHER PRECAUTIONS - These products must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 — Physical and Chemical Properties

PRODUCT WEIGHT	See TABLE	EVAPORATION RATE	Slower than ether
SPECIFIC GRAVITY	1.08 - 1.47	VAPOR DENSITY	Heavier than air
BOILING POINT	212 - 415 °F	MELTING POINT	Not Available
VOLATILE VOLUME	51 - 71 %	SOLUBILITY IN WATER	Not Available

Section 10 — Stability and Reactivity

STABILITY - Stable

CONDITIONS TO AVOID - None known.

INCOMPATIBILITY - None known.

HAZARDOUS DECOMPOSITION PRODUCTS - By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION - Will not occur

Section 11 — Toxicological Information

CHRONIC Health Hazards - Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

Rats exposed to titanium dioxide dust at 250 mg./m³ developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section 12 — Ecological Information

No data available.

Section 13 — Disposal Considerations

WASTE DISPOSAL METHOD - Waste from B70V400 Hardener is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste from the other products listed on this sheet may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate all products in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 — Transport Information

No data available.

Section 15 — Regulatory Information

CALIFORNIA PROPOSITION 65 - WARNING: These products, except for B70V400, contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION - All chemicals in these products are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 — Other Information

These products have been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The above information pertains to these products as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to these products may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.