

MATERIAL SAFETY DATA SHEET  
FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor 'Essentially Similar' to form OSHA-20)

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## Section I -- PRODUCT IDENTIFICATION

PRODUCT NAME  
Polyurethane Floor Enamel  
PRODUCT NUMBERS AND COLORS  
A33 A 34 Light Gray  
A33 A 37 Medium Gray  
A33 A 46 Dark Gray  
A33 G 110 Evergreen  
PRODUCT CLASS  
Alkyd Polyurethane Coating

\* - Trade Mark

A33 N 66 Walnut  
A33 R 85 Tile Red  
A33 W 82 White

## Section II -- HAZARDOUS INGREDIENTS

CAS No.	INGREDIENT	% by WEIGHT	ACGIH-TLV	OSHA-PEL	UNITS	V.P.
64742-47-8	Mineral Spirits.	5	100	500	PPM	2.0
64742-88-7	Mineral Spirits 140-Flash.	35-40	100	500	PPM	0.5
1308-38-9	Chromium Oxide.	0-5	0.50		Mg/M3	
	Chromium III (as Cr)	0-5		0.50	Mg/M3	
	[CrIII in A33G110 only.]					

## Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether  
BOILING RANGE (F) 300 - 416  
VAPOR DENSITY -- Heavier than Air  
% VOLATILE VOLUME 61  
WT/GAL 8.5-9.0

## Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION  
Combustible, Flash above 99 and below 200 F  
FLASH POINT 102 F PMCC  
EXTINGUISHING MEDIA  
Carbon Dioxide, Dry Chemical, Foam  
LEL 0.9  
UNUSUAL FIRE AND EXPLOSION HAZARDS  
Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. 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.

Continued on page 2

## Section V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE -- See Section II  
EFFECTS OF OVEREXPOSUREACUTE: In a confined area vapors in high concentration are anesthetic. Overexposure may result in lightheadedness and staggering gait.  
IRRITANT to skin and upper respiratory system.  
CHRONIC: Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.  
EMERGENCY AND FIRST AID PROCEDURES  
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 launder before re-use.  
If in EYES: Flush eyes with large amounts of water for 15 minutes.  
Get medical attention.

## Section VI -- REACTIVITY DATA

STABILITY -- Stable  
HAZARDOUS DECOMPOSITION PRODUCTS  
By fire: Carbon Dioxide, Carbon Monoxide  
HAZARDOUS POLYMERIZATION -- Will Not Occur

## Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate and remove with inert absorbent.

## WASTE DISPOSAL METHOD

Waste from this product 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 in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

## Section VIII -- PROTECTION INFORMATION

## PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

Protect against dust which may be generated by sanding or abrading the dried film.

## VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II 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 respiratory device approved by NIOSH/MSHA for protection against materials in Section II.

## PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section II.

## EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Continued on page 3

## Section IX -- PRECAUTIONS

## DOL STORAGE CATEGORY -- 2

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Contents are COMBUSTIBLE. 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.

## OTHER PRECAUTIONS

This coating contains materials classified as nuisance particulates, for example titanium dioxide, calcium carbonate, etc. (see ACGIH TLV List, Preface and Appendix D), which may be present at hazardous levels only during sanding or abrading of the dried film.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.