

Duro-Shield™ Acrylic Roof Primer

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
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Product Name:	Duro-Shield™ Acrylic Roof Primer		
Version:	2		
Identifier 1:	Roof Primer		
Identifier 2:	1606		
Chemical Family:	Mixture		
Product Use:	Pigmented Acrylic Copolymer Emulsion		
Company Information:	Duro-Last®, Inc. 525 W Morley Dr. Saginaw, MI 48601 Phone: (800) 248-0280 Website: www.duro-last.com	Manufactured By:	Anvil Paints & Coatings, Inc. 1255 Starkey Road Largo, FL 33771 Phone: (800) 822-6776 Website: www.anvilpaints.com
Emergency Phone (24 hours):	INFOTRAC 1-800-535-5053 (US & Canada) 1-352-323-3500 (International)		

SECTION 2	HAZARD(S) IDENTIFICATION
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Hazard Classification:	Health Hazards		
	Skin Corrosion/Irritation, Category 2		
	Eye Irritation, Category 2A		
	Skin Sensitization, Category 1		
Pictogram(s):			
Signal Word:	WARNING		
Hazard Statements:	H315 H317 H319		- Causes skin irritation. - May cause an allergic skin reaction. - Causes serious eye irritation.
Precautionary Statements:	Prevention		
	P261		- Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264		- Wash skin thoroughly after handling.
	P272		- Contaminated work clothing must not be allowed out of the workplace.
	P280		- Wear protective gloves/protective clothing/eye protection/face protection.
	Response		
	PP302+P352		- IF ON SKIN: Wash with plenty of water.
	P305+351+338		- IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing.
	P332+P313		- If skin irritation occurs: Get medical advice/attention.
	P337 + P313		- If eye irritation persists: Get medical advice/attention.
	P362		- Take off all contaminated clothing and wash before reuse.

Disposal

P501

- Dispose of contents/container in accordance with local, state, or federal regulations.

SECTION 3**COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous Ingredients**

Chemical Name	CAS Number	Concentration (%)
Propylene Glycol	57-55-6	0.00 – 5.00%
Zinc Oxide	1314-13-2	0.00 – 5.00%
Mica	12001-26-2	0.00 – 5.00%
Texanol	2565-77-4	0.00 – 5.00%
Titanium Dioxide (Unbound)*	13463-67-7	10.00 – 20.00%
Acrylic Polymer Emulsion	Proprietary	10.00 – 20.00%
Water	7732-18-5	40.00 – 60.00%

*The hazards of the listed Titanium Dioxide are for its powder unbound form. When the chemical is used in applications such as textures or coatings, the chemical becomes bound and is not in its hazardous form.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4**FIRST-AID MEASURES****Inhalation:**

If affected:
 Move to fresh air.
 Restore breathing.
 Keep quiet and warm.
 Consult a physician after significant exposure, or feeling unwell.

Skin Contact:

Wash off with soap and plenty of water.
 If symptoms persist, call a physician.

Eye Contact:

Immediately flush eye(s) with plenty of water.
 Remove contact lenses.
 Keep eye(s) wide open while rinsing.
 If eye irritation persists, consult a specialist.

Ingestion:

Clean mouth with water and drink plenty of water afterwards.
 Do NOT induce vomiting.
 Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Both Acute and Delayed:

Irritant Effects: Eye, Skin, Respiratory Tract.
 Potentially Cancerous.

Protection of First-Aiders:

Move out of dangerous area.
 Consult a physician.
 Show this Safety Data Sheet to the doctor in attendance.

Notes to Physician:

Treat symptomatically.

SECTION 5	FIRE-FIGHTING MEASURES
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Suitable Extinguishing Media:	Water-based coating. Will not burn under normal circumstances.
Unsuitable Extinguishing Media:	N/A
Specific Precautionary Methods:	Closed containers may explode when exposed to extreme heat. Water may be used to cool to prevent pressure build-up.
Special Protective Equipment for Firefighters:	In the event of fire, wear self-contained breathing apparatus, if appropriate. Thermal decomposition may produce toxic fumes of Carbon Monoxide, Carbon Dioxide, and Hydrogen.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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Handling Precautions:	Use personal protective equipment. Deny access to unprotected persons. Avoid breathing dust/fumes/gas/mist/vapors/spray.
Environmental Precautions:	Avoid flushing into or allowing chemical to enter surface water or sanitary sewer system. If large amounts of the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
Cleanup:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, or sawdust). Keep in suitable, closed containers for disposal.
Regulatory Requirements:	Follow applicable OSHA regulations (29 CFR 1940.120).

SECTION 7	HANDLING AND STORAGE
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Handling Precautions:	Avoid breathing vapors or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection, see section 8. Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating, and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products.
Storage Requirements:	Store in original container. Keep in a dry, well-ventilated place. Keep container tightly closed. Observe label precautions. Store in accordance with local regulations.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	CAS Number	Basis **	Value	Exposure Limit(s)* / Form of Exposure
Titanium Dioxide (Unbound)***	13463-67-7	OSHA	TWA	15 mg/m ³ (Total Dust)
		ACGIH	TLV	10 mg/m ³ (Total Dust)
Zinc Oxides	1314-13-2	OSHA	TWA	5 mg/m ³ (Respirable)
		ACGIH	TLV	2 mg/m ³ (Respirable) (STEL) 10 mg/m ³
Mica	12001-26-2	OSHA	TWA	20 mppcf
		ACGIH	TLV	3 mg/m ³ (Respirable)

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this Safety Data Sheet.

****Basis**

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminant (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

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Engineering Measures:

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Personal Protective Equipment:**Respiratory Protection**

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand Protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye Protection

Safety eyewear with side-shields or face shield complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. Impervious gloves and apron are recommended.

Hygiene Measures

Avoid contact with skin, eyes, and clothing.

Wash hands before breaks and immediately after handling the product.

Remove respiratory and skin/eye protection only after vapors have been cleared from the area.

Remove contaminated clothing and protective equipment before entering eating areas.

Wash thoroughly after handling.

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Liquid
Color:	White
Relative Density:	N/A
pH:	8.0 – 9.0
Odor:	Slight Ammonia
Solubility:	Complete
Boiling Point:	212°F
Freezing Point:	32°F
VOC:	98.0 g/L
Flammability:	None

SECTION 10**STABILITY AND REACTIVITY**

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	The product is chemically stable.
Possibility of Hazardous Reactions:	Stable under recommended storage conditions.
Conditions to Avoid:	Extremes of temperature and direct sunlight, as these conditions could lead to pressure build-up in a sealed container.

SECTION 11**TOXICOLOGICAL INFORMATION****Toxicity**

Hazardous Ingredient Name	Acute or Chronic?	Oral LD ₅₀	Dermal LD ₅₀	Dermal LC ₅₀
Propylene Glycol	Acute	20 mg/kg (rat)	20,800 mg/kg (rabbit)	NE**
Titanium Dioxide (Unbound)*	Chronic (Inhalation)	> 10,000 mg/kg (rat)	≥ 10,000 mg/kg (hamster)	NE**
Texanol	No	3,200 mg/kg (rat)	> 20 mL/kg (guinea pig)	NE**
Zinc Oxide	No	7,950 mg/kg (mouse)	NE**	NE**
Mica	No	NE**	NE**	NE**

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**NE = No Evidence

Irritation: Skin irritation.
Eye irritation.

Sensitization: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

SECTION 12 **ECOLOGICAL INFORMATION**

Environmental Data

Components	Species	Test Results
Propylene Glycol (57-55-6)	Psuedokirchneriella Subcapitata	EC50; Dose: 19,000 mg/L; Exposure time: 96 h
	Pimephales Promelas	LC50; Dose: 710 mg/L; Exposure time: 96 h
	Pimephales Promelas	LC50; Dose: 51,400 mg/L; Exposure time: 96 h
	Oncorhynchus Mykiss	LC50; Dose: 41 – 47 mL/L; Exposure time: 96h
	Oncorhynchus Mykiss	LC50; Dose: 51,600 mg/L; Exposure time: 96 h
	Photobacterium Phosphoreum	EC50; Dose: 710 mg/L; Exposure time: 30 min
	Daphnia Magna	EC50; Dose: > 10,000 mg/L; Exposure time: 24 h
Texanol (25265-77-4)	Daphnia Magna	EC50; Dose: > 1,000 mg/L; Exposure time: 48 h Static
	Pimephales Promelas	LC50; Dose: 33 mg/L; Exposure time: 96 h
	Daphnia Magna	EC50; Dose: 147.8 mg/L; Exposure time: 48 h
	Psuedokirchneriella Subcapitata	ErC50; Dose: 15 mg/L; Exposure time: 72 h

Other Information: Do not empty into drains; dispose of this material and its container in accordance with state and local regulations. Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains, and sewers.

SECTION 13 **DISPOSAL CONSIDERATIONS**

Disposal Methods: **Waste from Residues**
 Disposal of this product, solutions, and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated Packaging
 Empty containers should be taken to an approved waste handling site for recycling or disposal in accordance with local, state, and national regulations.

SECTION 14 **TRANSPORT INFORMATION**

DOT: Not dangerous goods.
IATA: Not dangerous goods.
IMDG: Not dangerous goods.
 Non-regulated, not classified as dangerous.

SECTION 15 **REGULATORY INFORMATION**

TSCA List: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

CERCLA Reportable Quantity: This material does not contain any components with a CERCLA RQ.
SARA 304 Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material contains Zinc Oxide with CAS number 1314-13-2 that has the threshold (De Minimis) reporting level of 1.0, established by SARA Title III, Section 313.

- Clean Air Act:** This product contains Zinc Oxide, which is classified as a hazardous air pollutant (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
- Ozone-Depletion Potential:** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
- California Prop 65:** **WARNING:** This product can expose you to chemicals including Titanium Dioxide, which is known to the State of California to cause [cancer](#) when unbound and airborne. For more information, go to www.P65Warnings.ca.gov.

SECTION 16

OTHER INFORMATION

- Previous Editions:** First Edition: 01/02/17
- Further Information:** This SDS was prepared in accordance with OSHA regulatory standards for Toxic and Hazardous Substances: 29 CFR 1910.1200
- Disclaimer:** To the best of our knowledge, the information contained herein is accurate. However Duro-Last®, Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with care. Although Duro-Last®, Inc. has described herein all of the hazards to which we are currently aware, we cannot guarantee that these are the only hazards which exist.