

Safety Data Sheet

Duro-Last®

Duro-Shield® Universal 2-Part Epoxy Primer – Part A

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Duro-Shield® Universal 2-Part Epoxy Primer – Part A

Version:

Identifier: 2-Part Epoxy Primer/Filler – Part A

Chemical Family: Mixture

Product Use: Architectural Coating and Waterproofing

Company Information: Duro-Last®, a division of Holcim Solutions and Products US, LLC

525 W Morley Dr. Saginaw, MI 48601 Phone: (800) 248-0280

Internet Address: www.duro-last.com

Emergency Phone (24 hours): INFOTRAC

1-800-535-5053 (US & Canada) 1-352-323-3500 (International)

SECTION 2 HAZARD(S) IDENTIFICATION

Hazard Classification: Skin Corrosion/Irritation, Category 2

Eye Damage/Irritation, Category 2 Skin Sensitization, Category 1 Carcinogenicity, Category 2

Specific Toxic Organ Toxicity (Repeated Exposure), Category 2

Pictogram(s):



Signal Word: WARNING

Hazard Statements: H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H351 - Suspected of causing cancer (inhalation).

H373 - May cause damage to organs (ears) through prolonged or repeated

exposure.

Precautionary Statements: Prevention

P202 - Do not handle until all safety precautions have been read and

understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash skin thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection.

Response

P302+352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do. Continue rinsing.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 - If eye irritation persists get medical advice/attention.
P361 + P363 - Take off contaminated clothing and wash it before reuse.

Storage

P405 - Store locked up.

Disposal

P501 - Dispose of contents and container in accordance with local,

regional, national, and international regulations.

Other Statements: 23% of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3

Media:

COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

Chemical Name	CAS Number	Concentration (%)
Limestone	1317-65-3	30.00 - 60.00
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-	25036-25-3	10.00 - 30.00
methylethylidene)bis(4,1-		
phenyleneoxymethylene)]bis[oxiran)e] (DGEBPA-based		
polymer)		
Xylene (mixed isomers)	1330-20-7	1.00 - 5.00
Titanium Dioxide (dust)	13463-67-7	1.00 - 5.00
Ethylbenzene	100-41-4	1.00 - 5.00
Silica, Quartz (dust)	14808-60-7	0.10 - 1.00

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:	Move to fresh air. Consult a physician if symptoms develop or persist.
Skin Contact:	Remove contaminated clothing immediately and wash skin with soap and water. Wash contaminated clothing before reuse. In case of eczema or other skin disorders: Seek medical attention and bring along these instructions.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.
Most Important Symptoms and Effects, Both Acute and Delayed:	Prolonged exposure may cause chronic effects. Suspected of causing cancer. May cause damage to organs (ears) through prolonged or repeated exposure. May cause allergic skin reaction (dermatitis/rash). Causes skin irritation. May cause redness and pain. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Notes to Physician:	Treat symptomatically. Symptoms may be delayed.
SECTION 5	FIRE-FIGHTING MEASURES
Suitable Extinguishing	Water fog, foam, dry chemical powder, and Carbon Dioxide (CO2).

Unsuitable Extinguishing

Media:

Do not use water jet as an extinguisher as this will spread the fire.

Specific Hazards: During fire, gases hazardous to health may be formed.

Products of Combustion: May include, and are not limited to: oxides of carbon.

Special Protective Equipment for Firefighters: In the event of fire, wear a self-contained breathing apparatus and full protective clothing.

Special Fire-Fighting

Procedures:

Keep upwind of fire. Move containers from fire area if you can do it without risk.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing

during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages

cannot be contained.

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a

suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate

Personal Protective Equipment (PPE).

Methods for Cleaning-Up: Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal.

Following product recovery, flush area with water. For waste disposal, see Section 13 of

this SDS. Never return spills to original containers for re-use.

Large Spill Response

Stop the flow of material, if this is without risk. Where possible, dike the spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Following product

recovery, flush area with water.

Small Spill Response

Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove

residual contamination.

Environmental Precautions: Avoid discharge into drains, waterways, or onto the ground.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1940.120).

SECTION 7 HANDLING AND STORAGE

Handling Precautions: Follow standard hygiene measures when handling chemical products. Ensure medical

personnel are aware of the materials involved, and take precautions to protect themselves. Personal Protective Equipment (PPE) recommended in Section 8 of this SDS. Provide

adequate ventilation while using this product.

Storage Requirements: Store in original container away from incompatible materials. Avoid strong oxidizing

agents. Provide adequate ventilation.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Limestone	TWA: 2 mg/m ³ respirable particulate matter	TWA: 15 mg/m³ total & 5 mg/m³ respirable particulate matter	TWA: 10 mg/m³ total & 5 mg/m³ respirable particulate matter
Xylene (mixed isomers)	STEL: 150ppm & 655 mg/m ³	TWA: 100ppm & 435 mg/m ³	TWA: 100ppm & 435 mg/m ³ with IDLH 900ppm
Titanium Dioxide (dust)	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust. Vacated 10 mg/m ³ total dust.	IDLH: 5000 mg/m ³
Ethylbenzene	ST 125 ppm (545 mg/m ³)	TWA 100 ppm (435 mg/m ³)	TWA 100 ppm (435 mg/m ³)

Engineering Measures:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Personal Protective Equipment:

Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand Protection

Wear appropriate chemical resistant gloves.

Eye Protection

If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection

Wear appropriate chemical resistant clothing.

Hygiene Measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Environmental Controls:

Solvent Content – Solid: 56.73

Environmental manger must be informed of all major releases.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous White Liquid	Evaporation Rate:	Not Applicable
Odor:	Mild Solvent	Flammability:	Not Applicable
Odor Threshold:	Not Applicable	Lower Flammability Limit:	Not Applicable
Color:	White	Upper Flammability Limit:	Not Applicable
Physical State:	Liquid	Vapor Pressure:	Not Applicable
pH (at 20°C)	Not Applicable	Vapor Density:	Not Applicable
Melting & Freezing Point:	Not Applicable	Density:	12.66 lb/gal
Initial Boiling Point:	Not Applicable	Specific Gravity:	1.52
Flash Point:	>200°F/93°C	Solubility:	High Solubility in Water
Auto-Ignition Temp:	Not Applicable	Viscosity (at 20°C) g/L:	180 ku
Decomposition Temp:	Not Applicable	Oxidizing Properties:	Not Applicable
Explosive Properties:	Not Applicable	VOC:	<100 g/L (<0.83 lb/gal)
Solvent Content – Organic:	Not Applicable	Incompatibilities:	Strong Oxidizing Agents
Solvent Content – Water:	Not Applicable	Other Information:	Not Applicable

SECTION 10 STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and

transport.

Chemical Stability: Material is stable under normal conditions. The product is stable and non-reactive under

normal conditions of use, storage and transport.

Possibility of Hazardous

Reactions:

No dangerous reaction known under conditions of normal use.

Conditions to Avoid: Contact with incompatible materials.

Incompatible Materials: None known, avoid strong oxidizing agents.

Hazardous Decomposition

Products:

No hazardous decomposition products are known.

Hazardous Polymerization: Does not occur.

Other Information: Not applicable.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Overall Chemical Acute Toxicity Values	>2000 mg/kg	>2000 mg/kg	>5 mg/kg (dust & mist)

LD50/LC50 Values Relevant to this Classification:

Xylene (mixed isomers)

Oral rat LD50 3523-4000 mg/kg bw Oral rat LD50 5251-5627 mg/kg bw Oral rat LD50 4300 mg/kg bw Oral rat LD50 8400 mg/kg

Derm rabbit LD50 >5000 ml/kg bw (4200 mg/kg)

Inhal rat LC50 6700 ppm (29000 mg/m³) Inhal rat LC50 6247 ppm (27124 mg/m³)

Titanium Dioxide (dust)

Oral mouse LD50 > 5000 mg/kg bw Oral rat LD50 > 5000 mg/kg bw Oral rat LD50 > 2000 mg/kg bw Oral rat LD50 > 11000 mg/kg bw Inhal rat LC50 3.43-5.09 mg/L air Inhal rat LC50 > 3.56 mg/L air Inhal rat LC50 > 2.28 mg/L air Inhal rat LC50 > 6.82 mg/L air 4hr

Ethylbenzene

Oral rat LD50 3500 mg/klg bw/day Oral rat LD50 5460 mg/kg bw/day Inhal mouse LC50 6.2 mg/L air Inhal rat LC0 > 400 ppm air no deaths

Inhal gp LC50 >3000 ppm air Inhal mice LC50 > 8000 ppm Inhal mouse LC50 35.5 mg/L air Inhal rat LC50 4000 ppm

Acute Toxicity: May cause an allergic skin reaction. Dermatitis. Rash. Causes skin irritation. May cause

redness and pain. Causes serious eye irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision.

Likely Routes of Exposure: Skin contact, eye contact, and inhalation.

Eye

Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Skin

May cause an allergic skin reaction. Dermatitis. Rash. Causes skin irritation. May cause redness and pain.

Ingestion

Not an expected route of exposure. Expected to be a low ingestion hazard.

Inhalation

Not an expected route of exposure. No adverse effects due to inhalation are expected.

Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure:

Skin Corrosion/Irritation

Causes skin irritation. May cause redness and pain.

Serious Eye Damage/Irritation

Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Respiratory Sensitization

Based on available data, this product is not expected to cause respiratory sensitization.

Skin Sensitization

May cause an allergic skin reaction.

Symptoms and Target Organs

Prolonged exposure may cause chronic effects. Suspected of causing cancer. May cause damage to organs (ears) through prolonged or repeated exposure. May cause allergic skin reaction. Dermatitis. Rash. Causes skin irritation. May cause redness and pain. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Chronic Health Effects

Prolonged exposure may cause chronic effects. Suspected of causing cancer. May cause damage to organs (ears) through prolonged or repeated exposure.

Carcinogenicity

Suspected of causing cancer.

Component	OSHA	ACGIH	NTP	IARC
Titanium Dioxide (dust)	Not Listed	A4	Not Listed	2B
Ethylbenzene	Not Listed	A3	Not Listed	2B
Silica, Quartz (dust)	Not Listed	A2	K	1

Duro-Shield® Universal 2-Part Epoxy Primer – Part A SOURCE AGENCY CARCINOGEN CLASSIFICATIONS

OSHA =Occupational Safety and Health Administration

Ca/Yes = Expected to be carcinogenic

NTP =National Toxicology Program

K =Known to be a carcinogen

not listed = Not expected to be carcinogenic

R = Rnown to be a carcinogen

R = Reasonably anticipated to be a carcinogen

not listed = Not expected to be carcinogenic

IARC =International Agency for Research on Cancer

ACGIH = American Conference of Governmental Industrial Hygienists

A1 =Confirmed human carcinogen A2 =Suspected human carcinogen

A3 = Animal carcinogen

A4 = Not classifiable as a human carcinogen

A5 =Not suspected as a human carcinogen not listed = Not expected to be carcinogenic

1 =Carcinogenic to humans

2A =Probably carcinogenic to humans 2B =Possibly carcinogenic to humans

3 =Not classifiable as to its carcinogenicity to humans

4 = Probably not carcinogenic to humans not listed = Not expected to be carcinogenic

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

Specific Target Organ Toxicity (STOT):

Single Exposure

Not classified as an STOT - Single Exposure.

Repeated Exposure

May cause damage to organs (ears) through prolonged or repeated exposure.

Aspiration Toxicity: Based on available data, this product is not expected to cause aspiration toxicity.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging effect

on the environment.

Acute Aquatic Toxicity: The product is not classified as acutely environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging effect

on the environment.

Chronic Toxicity: The product is not classified as having a chronic environmental hazard. However, this does

not exclude the possibility that large or frequent spills can have a harmful or damaging

effect on the environment.

Environmental Effects: The product is not classified as environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging effect

on the environment.

Persistence/Biodegradability: The product contains substances which are not expected to be readily biodegradable.

Bioaccumulation: No data available.

Mobility: No data available.

Other Adverse Effects: No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods: This material must be disposed of in accordance with all local, state, and federal regulations.

Contaminated Packaging: Since emptied containers may retain product residue, follow label warnings even after

container is emptied. Dispose of contents and container in accordance with all local,

regional, national and international regulations.

EU Codes: The waste code should be assigned in discussion between the user, the producer and the

waste disposal company.

Residual Waste: Dispose of in accordance with local regulations. Empty containers or liners may retain

some product residues. This material and its container must be disposed of in a safe

manner (see: Disposal Instructions).

Disposal Instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose

of contents and container in accordance with all local, regional, national and international

regulations.

Waste Codes: The waste code should be assigned in discussion between the user, the producer and the

waste disposal company.

SECTION 14 TRANSPORT INFORMATION

DOT: Not classified as Dangerous Goods for Transport

IATA: Not classified as Dangerous Goods for Transport

IMDG: Not classified as Dangerous Goods for Transport

ICAO/IATA: Not classified as Dangerous Goods for Transport

Reportable Quantity: Package sizes shipped in quantities less than the product reportable quantity are not subject

to the RQ (reportable quantity) transportation requirements.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15 REGULATORY INFORMATION

U.S. OSHA Specifically Regulated Substances:

No components of this product are present at concentration greater than or equal to 0.1% and are identified as a carcinogen or potential carcinogen by OSHA.

SARA/CERCLA Reporting Requirements:

The following components of this product are found at concentrations greater than or equal to 0.1% and are subject to SARA/CERCLA reporting requirements.

Material	SARA 302 (EHSs) TPQ	SARA 304 EHSs RQ	CERCLA RQ	SARA 313 Listed	RCRA CODE	CAA 112(r) TQ
Xylene (mixed isomers)	Not Listed	Not Listed	100	313	U239	Not Listed
Ethylbenzene	Not Listed	Not Listed	1000	313	Not Listed	Not Listed

State Right-to-Know Regulations:

The following components of this product are found at concentrations greater than or equal to 0.1%, subject to state Right-to-Know reporting requirements; or are found at any concentration and are listed under California Proposition 65.

Material	California Proposition 65	Massachusetts Right-to- Know	Minnesota Employee Right-to- Know	New Jersey Community Environmental Hazard Right- to-Know	New Jersey Right-to-Know Substance	Pennsylvania Right-to-Know	Rhode Island Right-to- Know
Limestone	Not listed	Listed	Listed	Not listed	Listed	Listed	Not listed
Xylene (mixed isomers)	Not listed	Listed	Listed	Not listed	Listed	Listed	Listed
Titanium Dioxide (dust)	Cancer (airborne, unbound particles of respirable size)	Listed	Listed	Not Listed	Listed	Listed	Not listed
Ethylbenzene	Cancer	Listed	Listed	Not listed	Listed	Listed	Listed
Silica, Quartz (dust)	Cancer (airborne, unbound particles of respirable size)	Listed	Listed	Listed	Listed	Listed	Not Listed
Silicon Dioxide (dust)	Not Listed	Listed	Listed	Not Listed	Not Listed	Listed	Not Listed

California Proposition 65:

WARNING: This product can expose you to Ethylbenzene, Titanium Dioxide (dust), and Silica, Quartz (dust), which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

Global Inventories Notification Status				
US - TSCA	All substances are listed			
Canada -DSL	All substances are listed			
Canada - NDSL	No substances are listed			
EU - EINECS	Not all substances are listed			
EU - ELINCS	No substances are listed			
EU - NLP	At least 1 substance is listed			
EU - Reach	All substances are listed			
Australia – AICS	All substances are listed			
China - EICSC	All substances are listed			
Japan - ENCS	All substances are listed			
Korea - KECI	All substances are listed			
Taiwan - NECI	All substances are listed			
New Zealand - NZloC	All substances are listed			
Philippine - PICCS	All substances are listed			

EU-REACH Status - Canada WHMIS Classification - Mexico (GHS):

Hazard Classification	Category
Skin Corrosion/Irritation	2
Eye Damage/Irritation	2
Sensitization - Skin	1
Carcinogenicity	2
Specific Toxic Organ Toxicity (Repeated Exposure)	2

SECTION 16	OTHER INFORMATION					
NFPA 704 Rating:	Health Hazards 2 Flammability 1 Reactivity 0					
HMIS Rating:	Health Hazards 2*	Flammability 1	Physical Hazards 0			

Previous Editions: First Edition: 03/12/2024

Further Information:

This SDS was prepared in accordance with OSHA regulatory standards for Toxic and

Hazardous Substances: 29 CFR 1910.1200.

To the best of our knowledge, the information contained herein is accurate. However, Disclaimer:

Duro-Last®, a division of Holcim Solutions and Products US, LLC 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 we have described herein all of the hazards to which we are currently aware, we cannot

guarantee that these are the only hazards which exist.