



The Euclid Chemical Group is proud to supply the highest quality products and services to the global building community.

INDUSTRIAL COATINGS

AQUASEAL

A 2-component, 100% solids, high build protective epoxy coating specifically designed for surfaces in underwater (fresh or salt) or in damp applications. (Only available in Light Gray)

AQUATHANE

A 2-component solvent based aliphatic urethane coating which provides excellent anti-graffiti protection for interior or exterior applications. Aquathane combines superior chemical & abrasion resistance with excellent adhesion and weathering. (Only available in Clear).

DURAL 304

A 2-component, high solids epoxy coating, which provides good chemical and excellent wear resistance. It is used over concrete or steel where both aesthetic appearance and performance are required.

DURALKOTE 240

A 100% solids, high build coating which produces a tile like surface for floors and walls while providing excellent abrasion and chemical resistance.



Industrial Coatings Color Chart



AQUASEAL EPOXY SYSTEM

UNDERWATER EPOXY COATING AND REPAIR SYSTEMS

DESCRIPTION

The AQUASEAL family of products are two-part, 100% solids epoxy systems specifically designed for underwater applications on concrete or masonry surfaces. These products are suitable for applications in both fresh and saltwater. AQUASEAL MV is a high build protective coating for structures below water. AQUASEAL LV is a low viscosity version that can be mixed with aggregate to form a mortar for repair or can also be used "heat" for crack repair using pressure injection techniques. AQUASEAL GEL can be used neat or with an aggregate for repairing and grouting of underwater vertical surfaces.

PRIMARY APPLICATIONS

- Coating concrete, steel piers and piles
- Grouting pile jackets
- Underwater pressure injection
- Grouting and pointing of granite block
- Anchor bolt grouting

TECHNICAL INFORMATION

Material Properties @ 75°F(24°C) (Values are typical and not necessarily referenced to create specifications).

	AQUASEAL MV	AQUASEAL LV	AQUASEAL GEL
Mixing Ratio A:B by volume	1:1	1:1	1:1
Viscosity A & B mixed, cps	5,000 to 7,000	1,000 to 1,500	Gel
Gel Time 100 grams	60 min	40 min	60 min
Pot Life 2 gal (7.6 L)/unit	30 to 40 mins	15 to 30 mins	30 to 35 mins
Tensile Strength min psi (MPa) ASTM D 638			
7 Day	3,000 (20.7)	6,500 (44.82)	–
Tensile Elongation %	1 to 5	6 to 12	–
Compressive Strength psi (MPa) ASTM D 695			
7 Day	7,000 to 8,000 (48.3 to 55.2)	8,000 to 9,000 (55.2 to 62.1)	7,000 to 8,000 (48.3 to 55.2)
Compressive Mortar Strength psi (MPa) ASTM C 109			
7 Day	9,000 to 10,000 (62.1 to 69.0)	7,000 to 8,000 (48.3 to 55.2)	8,000 to 9,000 (55.2 to 62.1)
Parts sand, by volume	3	3	1
Shore D Hardness ASTM D 2240,	85 to 90	90 to 95	85 to 90
Flexural Strength psi (MPa) ASTM C 580 (3 parts sand)	2,200 (15.2)	3,000 (20.7)	–
Tensile Strength psi (MPa) ASTM C 307 (3 parts sand)	–	1,250 (8.6)	–

Appearance: AQUASEAL epoxies are manufactured in light gray. Special colors are available subject to minimum quantities.

PACKAGING

AQUASEAL LV, MV & GEL are packaged in 10 gal (37.9 L) units and 4/1 gal (3.8 L)/case.

SHELF LIFE

2 years in original, unopened package

SPECIFICATIONS/COMPLIANCES

AQUASEAL LV: ASTM C 881, Type III, Grade 1, Class C
 AQUASEAL MV: ASTM C 881, Type IV, Grade 2, Class C
 AQUASEAL GEL: ASTM C 881, Type IV, Grade 3, Class C



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COVERAGE

ft ² /gal (m ² /L)	AQUASEAL MV	AQUASEAL LV	AQUASEAL GEL
bond coat	100 (2.45)	150 (3.68)	100 (2.45)
1st coat	50 (1.23)	–	–
2nd coat	75 (1.84)	–	–
Epoxy:Aggregate (by vol)	–	1:3	1:1
Epoxy:Aggregate per ft ³ (.028 m ³)	–	2.7 gal:8.0 lbs (10.2 L : 3.6 kg)	4.7 gal:4.7 lbs (17.8 L : 2.1 kg)

Note: AQUASEAL product coverage rates are approximate and for estimating purposes only.

DIRECTIONS FOR USE

Surface Preparation: Surface must be structurally sound, and clean of laitance, dirt, marine growth, scale, oil, coatings and other contaminants. All surfaces should be sandblasted, water-blasted or mechanically abraded to remove all contaminants and provide a roughened, structurally sound substrate. Application of the appropriate AQUASEAL product should begin promptly to avoid re-contamination of the surface.

Mixing: The AQUASEAL products should be conditioned to 75°F (24°C) for 24 hours prior to mixing above water. Premix Part A (Base) and Part B (Hardener) individually. Then combine Part A and Part B 1:1 by volume in a clean container. Mix thoroughly with a slow speed motor and “Jiffy” Mixer. Make sure to scrape the sides and bottom of the mixing container. Do not aerate the mix. **Mortar:** AQUASEAL LV and AQUASEAL GEL can be mixed with clean, dry silica aggregate to make a mortar. Gradually add an appropriate aggregate to the mixed binder and blend thoroughly. **Mix Ratios for Mortar:** Mixed binder to aggregate (by volume). AQUASEAL LV 1:3 and AQUASEAL GEL 1:1 maximum. (May be varied depending upon desired consistency).

Application: The AQUASEAL products should be applied at water and surface temperatures of at least 55°F (13°C) and rising. The mixed AQUASEAL system should be transported underwater after mixing. Agitation while underwater must be minimized. **Coating:** Apply a thin coat of AQUASEAL MV as a primer, by brush or gloved hand working and scrubbing the coating into the pores of the substrate in order to displace the water. Follow with a regular heavy coat of AQUASEAL MV, applied by gloved hand, brush or roller.

Grouting/Patching: Horizontal: Prime by scrubbing the surface with neat AQUASEAL LV in order to displace the water. Place the prepared AQUASEAL LV mortar by pouring from the bottom and one side and finish with a trowel. The material’s density should displace the water. **Pile Jacket Grouting:** Pump or pour the prepared AQUASEAL LV mortar, starting at the bottom of the jacket and work up. The density of the material should displace the water from the jacket. **Vertical and Overhead:** Prime the surface by scrubbing or working the surface with neat AQUASEAL GEL. Apply by pressing the AQUASEAL GEL neat or mixed with aggregate, firmly on the substrate with gloved hand or trowel so as to displace the water. Build up the material to the desired thickness. For deep patching, the repairs should be made in lifts of no more than 1” (2.5 cm) at a time allowing each lift to achieve an initial set prior to applying the next lift. **Anchor Bolt Grouting:** Before grouting, ensure that the anchor hole is free of all debris and foreign objects. **Vertical Anchor Bolt Holes:** Place the anchor bolt into the hole and pour the neat AQUASEAL LV around the bolt allowing the air to vent before filling completely. **Horizontal Anchor Bolt Holes:** Prime by scrubbing the anchor bolt hole with neat AQUASEAL GEL. Fill approximately half the hole with the gel, and push the anchor bolt into the hole, twisting the bolt to make sure full contact is made. Pack the hole with additional gel to finish flush with the substrate.

CLEAN-UP

Clean tools and application equipment immediately after use with methyl ethyl ketone or acetone. Clean spills and drips while still wet with solvent. Dried AQUASEAL will require mechanical abrasion for removal.

PRECAUTIONS/LIMITATIONS

- Do not thin or dilute AQUASEAL materials.
- Do not mix and apply below 55°F (13°C).
- Store between 50°F to 90°F (10°C to 32°C).
- Use only clean oven-dry aggregates.
- AQUASEAL is not designed to resist hydrostatic pressure from the negative side.
- Agitation of the product once under water must be kept to a minimum.
- Due to the many variables which can exist under water, a test application under jobsite conditions is recommended prior to the start of every project to evaluate both application techniques and adhesion after cure.
- In all cases, consult the Material Safety Data Sheet before use.

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WARRANTY: The Euclid Chemical Company (“Euclid”) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid’s installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid’s products for the Buyer’s intended purposes.

AQUATHANE®

ANTI-GRAFFITI, POLYURETHANE PROTECTIVE COATING

DESCRIPTION

AQUATHANE is a two component, solvent based, aliphatic polyurethane coating which has excellent anti-graffiti properties for indoor or outdoor use. **AQUATHANE** is also an ideal topcoat for most Euclid Chemical epoxy and urethane coatings and some masonry coatings.

PRIMARY APPLICATIONS

- Architectural finishes for buildings
- Sound walls
- Highway bridge structures
- Median barrier
- Interior/exterior surfaces
- Concrete block or brick
- Retaining walls
- Decorative finish
- Stucco

FEATURES/BENEFITS

- Interior or exterior surfaces
- Protects and provides a uniform color finish to precast or poured concrete
- Provides a durable, long-lasting coating designed for easy graffiti removal

TECHNICAL INFORMATION

Typical Properties

	60°F(16° C)	75°F (24°C)	90°F(32°C)
Pot Life (2 gal) hrs	8	6	4
Dry Time hrs	4 to 5	2 to 4	1 to 2
Final Cure days	15	7	5
Mix Ratio Volume: part A/part B	(1:3)		
Viscosity @ 75°F (24°C)	300 to 1,000 cps		
Mixed Solids %			
Weight	58 to 60		
Volume	54 to 56		

Flexibility passes the 1/8" (3.2 mm) Mandrel Test
Ultraviolet exposure passes after 1,000 hours
VOC content 340 g/L

Taber Abrasion Test (CS 17 wheel)
1,000 grams / 1,000 cycles 50 mgs weight loss

Appearance: **AQUATHANE** is available in clear gloss and clear-matte finish.

Values presented are typical and not necessarily referenced to create specifications.

PACKAGING

AQUATHANE is packaged in 4 gal cases (15.14 L) and 20 gal (70.71 L) units.

SHELF LIFE

1 year in original, unopened container.

COVERAGE

Typical coverage rates for **AQUATHANE** are 200 to 300 ft²/gal (4.91 to 7.36 m²/L). Two coats are recommended for most applications.

Note: **AQUATHANE** coverage rates are approximate and are for estimating purposes only. Surface porosity and texture will determine actual material requirements. Apply samples to all surface to be covered. Obtain approval of the architect or owner for the finish and coverage before proceeding with the job. Retain the mock-up through the completion of the job.

DIRECTIONS FOR USE

Surface Preparation: Concrete: The surface must be structurally sound, dry, free of grease, oils, curing compounds, efflorescence, laitance, form release agents and any other contaminants that would interfere with adhesion. Smooth, precast and formed concrete surfaces must be cleaned, roughened and made absorptive by mechanical abrasion. Surface profile should be equal to CSP 1 to 2 in accordance with ICRI Guideline 03732. Defective concrete, honeycombs, cracks, cavities and other defects should be routed to sound concrete and patched using compatible materials. **Steel:** The surface should be abrasive blasted using clean dry aggregate to a white metal finish and primed immediately using a solvent based priming product. Do not use TAMMS H/P PRIMER or DURAPRIME WB to prime metal. **New/Existing Coatings:** Coatings should be cleaned and lightly sanded prior to application of **AQUATHANE** as a topcoat. A test patch should be applied and tested for adhesions.



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Priming: AQUATHANE should not be applied directly to unprimed concrete or masonry. Prime the concrete or masonry with TAMMS H/P PRIMER or DURAPRIME WB, both are water based primers. Stir the primer before using and apply by brush, roller or airless spray equipment. The primer should be tack free before AQUATHANE is applied. Refer to primer technical data sheet for additional information.

Mixing: Premix AQUATHANE Part A and Part B separately then combine one part by volume of Part A with three parts by volume of Part B in a clean dry container. Using a "Jiffy" or similar type mixer, mix slowly without aerating for 3 to 5 minutes. Scrape the sides of the container and the blades at least once during the mixing. Do not aerate during mixing.

Application: The primer can be applied by brush, short nap roller or airless spray equipment. Apply AQUATHANE as soon as the primer dries but no later than 18 hours after primer application. When spraying AQUATHANE, use a cross coat technique of a horizontal spray followed by a uniform, overlapping vertical spray. All runs and sags should be rolled before they dry. Proper safety precautions should be observed when spraying. When applying the matte finish over primed concrete, apply one coat of gloss finish first followed by one coat of matte finish. This will prevent occurrence of whitish/blotchy areas. **Graffiti Removal:** Graffiti removal should not be attempted until 48 to 72 hours after AQUATHANE application. Remove graffiti as soon as possible after the graffiti attack by working on small areas at a time. Use commercially available graffiti removers and apply in accordance with manufacturers instructions.

CLEAN-UP

Clean tools and application equipment immediately after use with Methyl Ethyl Ketone or PM Acetate. Clean spills or drips while still wet with solvents. Dried AQUATHANE will require mechanical abrasion for removal.

PRECAUTIONS/LIMITATIONS

- Apply at ambient temperatures between 50°F to 90°F (10°C to 32°C) and at a humidity below 80%.
- Heavy application of DURAPRIME WB (two part WB epoxy) will give a yellowish cast under this clear system.
- Provide adequate ventilation and use proper safety equipment during application.
- Excessively high film thicknesses and moisture may cause fine surface blistering.
- Direct application of matte finish to primed concrete may lead to a cloudy, blotchy appearance.
- Keep away from sparks, open flame, pilot lights and other sources of ignition.
- Concrete surfaces may darken to give a "wet look" effect on application.
- A test patch is highly recommended, to evaluate coverage rates, and appearance.
- Store between 50°F to 90°F (10°C to 32°C).
- In all cases, consult the Material Safety Data Sheet before use.

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DURAL® 304

INDUSTRIAL MAINTENANCE COATING

DESCRIPTION

DURAL 304 is a two component solvent based high solids epoxy coating which provides good chemical resistance and excellent wear resistance. DURAL 304 should be used as a coating for concrete and steel where both aesthetics and performance are desired. DURAL 304 can be used on walls and floors and will withstand foot and rubber tired vehicular traffic.

PRIMARY APPLICATIONS

- Interior/exterior surfaces
- Walls and floors in manufacturing plants
- Warehouses and production assembly areas
- Truck/auto repair bays
- USDA compliant
- Steel or concrete tanks
- Walls in sewage treatment plants
- Breweries
- Poultry processing areas
- Locker and clean rooms

TECHNICAL INFORMATION

Material Properties @75°F (24°C) 50% RH

Mix ratio (A:B) volume	1 to 1
VOC Content	340 g/l
Viscosity, mixed cps	5000 to 8000
Mixed solids % by wt	65
Pot life (2 gal (7.57 L) unit)	4 to 6 hours
Pencil Hardness	2H
Tack Free Time	2 to 4 hours
Final cure	7 days
Flexibility 1/8" (3.2 mm) Mandrel	passes

Values presented are typical and not necessarily referenced to create specifications.

Appearance: Light Gray, Dark Gray, Tile Red, and unpigmented (amber). Special or custom colors are available subject to minimum quantity orders.

Chemical Resistance Chart

ACIDS	RATING	ALKALIES/SALTS	RATING
Acetic Acid 5%	1	Ammonia 29%	3
Citric Acid 5%	2	Potassium Hydroxide 50%	3
Hydrochloric 10%	2	Sodium Hydroxide 50%	3
Nitric Acid 5%	2	Detergent Solution	3
Phosphoric 20%	2	Ammonium Sulfate 50%	3
Sulfuric 10%	2	Sodium Chloride 50%	3
SOLVENTS		Ferric Chloride 50%	2D
Ethyl Alcohol 95% ¹		Sodium Hypochlorite 5%	2D
Ethyl Acetate	NR	MISCELLANEOUS	
Methanol	1	Brake Fluid	2
Methyl Ethyl Ketone	NR	Skydrol	2
Mineral Spirits	3	Ethylene Glycol	3
Methylene Chloride	NR	Propylene Glycol	3
Toluene	2	Vegetable Oil	3
Xylene	2	Gasoline	3
Trichlorethane	2	Urine	3
Isopropyl Alcohol	1	Bleach Solution	3
		Diesel Oil	3

1 = Incidental Contact (8 hrs)
 2 = Splash & Spill (72 hrs)
 3 = Extended Exposure (7 days)
 D = Discoloration may occur
 NR = Not Resistant
 Dry film thickness @ 3.0 mils (2 coats @ 1.5 mils each)
 Primer thickness not included

PACKAGING

DURAL 304 is packaged in 10 gal (37.85 L) units and 4 gal (15.56 L) cases.

SHELF LIFE

2 years in original, unopened package.

COVERAGE

	ft ² /gal (m ² /L)
DURAL 304	200 to 300 (4.91 to 7.36)
2nd coat	250 to 400 (6.14 to 9.82)

Note: Coverage rates are approximate and for estimating purposes only. Surface porosity, texture and temperatures will determine actual material requirements.

DIRECTIONS FOR USE

Surface Preparation Concrete: Concrete must be structurally sound, dry, free of grease, oils, coatings, dust, curing compounds and other contaminants. Surface laitance must be removed. The preferred method of surface preparation is abrasive blasting or shotblasting. For oil contaminated surfaces using steam cleaning in conjunction with a strong emulsifying detergent may be considered.



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Rinse thoroughly with potable water. After cleaning, remove defective concrete, honeycombs, cavities, joint cracks, voids and other defects by routing to sound material. Smooth, precast and formed concrete surfaces must be cleaned, roughened and made absorptive by abrasive blasting or shotblasting. If it is not possible to abrasiveblast or shotblast, acid etch with a 15% Hydrochloric acid solution. After etching, pressure wash or flush the surface with copious amounts of water to neutralize the surface. Care must be taken to ensure that all salts and residue from the reaction have been removed. The pH of the surface should be checked per ASTM D 4262 following acid etching. To confirm that the surface preparation is adequate, there must be concrete failure in the surface when tested with an Elcometer or similar pull tester (ASTM D 4541). Before application of the coating, use the "Visqueen test" (ASTM D 4263) to evaluate moisture level in concrete. **New Concrete:** Should be allowed to cure for a minimum of 28 days. (Consult your local Euclid Chemical representative if earlier times are required.). Remove any surface hardener or curing compounds, by using the recommended mechanical methods for surface preparation. Prepare surface as recommended above. **Old Concrete:** For quick, small patching use suitable epoxy mortar. For larger areas use cementitious patching materials which are compatible with the system. After patching, a light brush blast is recommended prior to coating. **Steel:** All oils, greases, dirt, old coating or chemical contaminants must be removed. All welds should be continuous and ground to remove all splatter, sharp edges, laps and other surface irregularities. For Intermittent Contact/ Atmospheric Service, all steel surfaces should be blasted to a "NEAR WHITE" metal finish using clean dry blasting media.

Mixing: Premix the individual components Part A and Part B separately. Combine equal parts by volume of Part A (Base) and Part B (Hardener) in a clean container. Mix thoroughly with a slow speed motor using a "Jiffy" mixer for a minimum of 3 minutes. Scrape the sides and bottom of the container during mixing. Do not aerate mix. Do not thin mix. Allow mix to age (induct) for 30 to 40 minutes at 75°F (24°C) and remix before applying material.

Application: The ambient and surface temperature should be between 50°F (10°C) to 90°F (32°C). DURAL 304 can be applied using a short nap roller, brush, or an airless spray. DURAL 304 dries quickly, hence roll out brush marks or sags soon after application. If an anti-skid surface is required broadcast a fine, clean, dry silica aggregate at a rate of 0.2 to 0.8 lbs/yd² (.10 to .43 kg/m²) within the tack free time of DURAL 304 to achieve the desired surface. A second coat or a seal coat should be applied within 24 hours, at 75°F (24°C) . Allow the coating to cure 48 hours (at 75°F) (24°C) prior to opening to light traffic.

CLEAN-UP

Clean tools and application equipment immediately after use with Methyl Ethyl Ketone or PM Acetate. Clean spill or drips while still wet with solvents. Dried DURAL 1004C will require mechanical abrasion for removal.

PRECAUTIONS/LIMITATIONS

- Keep away from heat and flame.
- Store at temperatures between 50°F to 90°F (10°C to 32°C).
- Protect from moisture.
- Apply DURAL 304 when surface and ambient temperatures are between 50°F to 90°F (10°C to 32°C) and the humidity below 90%.
- Excessively high film thicknesses and/or moisture may cause soft films and surface blistering.
- Concrete surfaces may darken to give a "wet look" effect on application.
- A test patch for application on concrete or existing coatings is highly recommended.
- Not intended for continuous immersion.
- Provide adequate ventilation and ensure proper protective and safety equipment during application.
- Keep away from sparks, open flame, pilot lights and other sources of ignition.
- Keep containers tightly closed.
- In all cases, consult the Material Safety Data Sheet before use.

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DURALKOTE 240

HIGH BUILD FLEXIBLE EPOXY COATING

DESCRIPTION

DURALKOTE 240 is a two component, 100% solids, high performance epoxy coating system designed for use on concrete walls and floors. DURALKOTE 240 is flexible, offers excellent chemical and abrasion resistance, and provides excellent adhesion to properly prepared surfaces. DURALKOTE 240 produces a tile-like, easily maintained surface.

PRIMARY APPLICATIONS

- Showrooms
- Mechanical rooms
- Truck/auto bay areas
- Warehouse floors
- Chemical processing and manufacturing plants
- Water treatment facilities
- Breweries
- Food service plants

FEATURES/BENEFITS

- High build
- ▲ Can contribute to LEED points
- Chemical resistance
- DOT Non-Corrosive
- Glossy, tile-like finish

TECHNICAL INFORMATION

Material Properties @ 75°F (24°C)

Mixing ratio (A:B, by volume)	1:1
VOC Content	0 g/L
Viscosity mixed, cps	3,000 to 5,000
Gel Time (100 g sample)	30 to 40 mins
Pot Life (2 gal (7.6 L) unit)	15 to 25 mins
Tack free time (15 mils)	4 to 6 hrs
Tensile Strength, ASTM D 638	
psi (MPa)	1,800 to 2,000 (12.4 to 13.8)
Tensile Elongation, ASTM D 638	
% at break	15 to 25
Compressive Strength, ASTM D 695	
psi (MPa)	4,500 to 5,500 (31.0 to 37.9)
Compressive Strength, ASTM C 109	
(3 parts sand), psi(MPa)	7,000 to 8,000 (48.3 to 55.2)
Hardness, Shore D, ASTM D 2240	75 to 85
Water Gain 7 days %, max	0.5
Appearance: Light Gray, Dark Gray and Tile Red are standard colors. Special or custom colors are available subject to minimum order quantity requirements.	

ACIDS

Acetic 10%	3D
Chromic 10%	2D
Citric 10%	3D
Formic 25%	1
Hydrochloric 10%	2D
Lactic 85%	2D
Nitric 10%	3D
Phosphoric 10%	3
85%	NR
Sulfuric Acid 10%	3D
50%	3D
98%	NR
Hydrofluoric 10%	2D

SOLVENTS

Ethyl Alcohol 95%	1
Ethyl Acetate	NR
Methanol	1
Methyl Ethyl Ketone	NR
Mineral Spirits	4
Methylene Chloride	NR
Toluene	1
Xylene	1
Trichloroethane	2

ALKALIES/SALTS

Ammonia 29%	4
Potassium Hydroxide 50%	4
Sodium Hydroxide 50%	4
Detergent Solution	4
Ammonium Sulfate 50%	4
Sodium Chloride 50%	4
Ferric Chloride 50%	3D
Sodium Hypochlorite 10%3D	
Hydrogen Peroxide 35%	3D

MISCELLANEOUS

Brake Fluid	3
Skydrol	3
Formaldehyde 37%	3
Ethylene Glycol	4
Propylene Glycol	3
Vegetable Oil	4
Gasoline	2
Water	4
Anti Freeze	4
Bleach Soln	4
1 = Incidental (8 hrs)	
2 = Splash & spill (72 hrs)	
3 = Extended exposure (7 days)	
4 = Long term exposure (30 days)	
D = Discoloration	
NR =Not rated	

PACKAGING

DURALKOTE 240 is packaged in a 4 gal (15.5 L) case containing two 2 gal (7.6 L) kits.

SHELF LIFE

2 years in original, unopened, properly stored package.

COVERAGE

Primer (Optional)	ft ² /gal (m ² /L)
Duraprime WB	125 to 250 (3.08 to 6.14)
Duraltex Clear	150 to 300 (3.68 to 7.36)

Top Coat

Duralkote 240	100 to 150/coat (2.45 to 3.68)
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Rates are approximate and are offered for estimating purposes only.



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DIRECTIONS FOR USE

Surface Preparation: Concrete must be structurally sound, dry, free of grease, oils, coatings, dust, curing compounds and other contaminants. Surface laitance must be removed. The preferred method of surface preparation is mechanical abrasion. For oil contaminated surfaces using steam cleaning in conjunction with strong emulsifying detergent may be considered. Rinse thoroughly with potable water. After cleaning, remove defective concrete, honeycombs, cavities, joint crack voids and other defects by routing to sound material. Smooth, precast and formed concrete surfaces must be cleaned, roughened and made absorptive by mechanical abrasion. Surface profile should be equal to CSP 2 - 5 in accordance with ICRI Guideline 310.2 at a minimum. If it is not possible to mechanically abrade, acid etch with a 15% hydrochloric acid solution. After etching, pressure wash or flush the surface with copious amounts of water to neutralize the surface. Care must be taken to ensure that all salts and residue from the reaction have been removed. The pH of the surface should be checked, as per ASTM D 4262, following acid etching. Following surface preparation, the cleaned surface should pull concrete when tested with an Elcometer or similar pull tester (ASTM D 4541). Before application of the coating, use the "Visqueen test" (ASTM D 4263) to evaluate moisture level in concrete. **New Concrete:** Should be allowed to cure for a minimum of 28 days. Remove any surface hardener or curing compounds, by using the recommended mechanical methods for surface preparation. Prepare surfaces as recommended above. **Old Concrete:** For quick, small patching use suitable epoxy mortar; for larger areas, use cementitious patching materials which are compatible with the system. After patching, a light brush blast is recommended prior to coating. **Steel:** All oils, greases, dirt, old coatings or chemical contaminants must be removed. All welds should be continuous and ground to remove all splatter, sharp edges, laps and other surface irregularities. All steel surfaces should be blasted to a "NEAR WHITE" metal finish using clean dry blasting media.

Mixing: Premix DURALKOTE 240 Part A and Part B separately. Combine equal parts by volume of Part A (Base) and Part B (Hardener) in a clean container. Mix thoroughly with a slow speed drill motor and "Jiffy" mixer for a minimum 3 minutes. Scrape the sides and bottom of the container (including the paddle of the mixer) during mixing. Mix only enough material that can be used within the working life. Do not aerate mix.

Application: Surface and ambient temperatures should be between 50°F to 90°F (10°C to 32°C) . Apply properly mixed DURALKOTE 240 by brush, short nap roller, notched squeegee or spray to the properly prepared surface. Apply at a rate of 11 to 16 wet mils, 100 to 150 ft²/gal (2.45 to 3.68 m²/L). Air bubbles and voids can be minimized by using a spiked roller immediately after application. Allow to cure a minimum of 5 to 6 hours at 75°F (24°C) and no longer than 24 hours. Apply a second coat of DURALKOTE 240 at 11 to 16 wet mils, 100 to 150 ft²/gal (2.45 to 3.68 m²/L). In most cases, a penetrating low viscosity primer will minimize outgassing and help improve surface appearance of DURALKOTE 240. Where an anti-skid surface is desired, broadcast approx. 1/4 to 1/2 lb/ft² (1.22 to 2.44 kg/m) of clean dry aggregate into the first coat. When first coat has cured, sweep off excess aggregate. Apply a sealer coat at a coverage rate of 100 to 150 ft²/gal (2.45 to 3.68 m²/L).

CLEAN-UP

Clean tools and application equipment immediately after use with methyl ethyl ketone or acetone. Clean spills or drips while still wet with solvent. Dried DURALKOTE 240 will require mechanical abrasion for removal.

PRECAUTIONS/LIMITATIONS

- Store at temperatures between 50°F to 90°F (10°C to 32°C).
- Protect from moisture and freezing.
- Do not apply to wet surfaces.
- Do not apply if humidity is greater than 90%.
- The surface temperature must be at least 5°F (2.7°C) above the dew point of the work area.
- Do not thin the material.
- Do not apply if ambient or substrate temperature is below 50°F (10°C).
- Be sure work area is well ventilated.
- When applied directly to concrete, pinholes or bubbles may result due to concrete outgassing.
- Coating is a vapor barrier after cure.
- Variations in color may occur after extended UV exposure.
- Although epoxy coatings are chemically resistant, surface staining of the coating may occur after contact with some chemicals. Consider the use of a polyurethane topcoat such as EUCOTHANE for improved stain resistance.
- In all cases, consult the Material Safety Data Sheet before use.

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