

Polyurea

Protective Coatings



➤ What is Polyurea?

Polyurea is a coating that can be:

- Tack free within seconds
- Rapidly applied by spray application
- Insensitive to moisture and humidity during application
- High chemical Resistance
- High tensile strength
- No VOC's and little to no odour
- Weather tolerant: Cures at -32°C to 150°C even in high humidity
- Excellent resistance to thermal shock
- Flexible: bridges, cracks
- Waterproof, seamless and resilient
- Unlimited mm thickness in one application
- Spray, hand mix and caulk materials grade materials
- Excellent bond strengths to properly prepared substrates
- Resistant to various solvents caustics and mild acids
- Low permeability, excellent sustainability



Polyurea being applied to a pool lining.

What is Polyurethane foam?

Polyurethane foam is a product that is:

- Versatile - Can be applied to surfaces with irregular shapes and penetrations. Applications include tanks, pipes, cold storage rooms and floatation devices.
- Stop leaks and weather resistant - Forms a monolithic, self-flashing surface which effectively seals against leaks
- Rapidly applied by spray application
- Adheres to most surfaces - The seamless layer of foam is fully adhered to the substrate - horizontal or vertical - withstanding high wind stresses
- Provides superior insulating efficiency
- Reduces building movement - by placing the insulation on the outside, the foam system reduces building movement and thermal shock
- Lightweight
- Unlimited mm thickness
- Sound proofing properties
- Moisture and bacteria free
- UL listed
- Fire retardant properties

All GatorHyde Polyurea Products are supplied by:

**APPLIED CONVEYOR
AND POLYMERS LTD.**



➤ Products

GatorHyde DLX

GatorHyde DLX is the strongest, toughest coating known to the industry, having physical properties that are approximately triple those found in other high quality polyureas. GatorHyde DLX is a 1:1, fast-set spray elastomer that is 100% solids and VOC-free. It forms a very smooth, slick surface. GatorHyde DLX is fairly hard and tough, but it retains excellent resiliency and is not brittle. Abrasion resistance and chemical resistance are excellent. It most often finds applications on primed steel or concrete.



Chemthane 6050 (GatorHyde ARC)

GatorHyde ARC is widely used in both the construction and OEM markets due to its excellent physical properties and resistance to moisture issues. The elastomeric coating displays excellent chemical resistance and thermal stability. GatorHyde ARC is a fast-set, spray applied, two-component polyurea that contains 100% solids and zero VOC's. GatorHyde ARC has been specifically formulated for use in secondary containment over concrete (in conjunction with Chemprime 3558), but has additionally found utility in corrosion protection, waterproofing, concrete restoration and OEM applications. GatorHyde ARC is a pure Polyurea - It does not contain un-reactive components or moisture sensitive polyols - and is therefore capable of application in humid environments without porosity and blistering concerns. GatorHyde ARC is formulated this way to be user friendly, and to minimise problems associated with field applications.



GatorHyde UV 100

GatorHyde UV -100 is a 1:1 ratio, 100% Solids, VOC-free, aliphatic colour stable polyurea. GatorHyde UV-100 retains colour and gloss for many years in direct sunlight. This material has a quick cure time and offers excellent adhesion to properly prepared substrates. Because of the unique chemistry of this product, GatorHyde UV-100 can be installed on substrate temperatures as low as 0°F. GatorHyde UV-100 is ideal for both interior and exterior use as a protective coating over numerous substrates, however it was specifically developed for the O.E.M quality applications that require good gloss and colour retention.

Chemline 6055 (GatorHyde ARC Slow Gel)

GatorHyde ARC Slow Gel is very similar to GatorHyde ARC. It has been specifically formulated for use in secondary containment over geotextile fabric, but has additionally found utility in corrosion protection, waterproofing, concrete restoration and OEM applications. GatorHyde ARC Slow Gel, has a longer gel time than GatorHyde ARC which allows the applicator to achieve a slick, glassy smooth surface. GatorHyde ARC Slow Gel is a pure Polyurea - It does not contain un-reactive components or moisture sensitive polyols - and is therefore capable of application in humid environments without porosity and blistering concerns. GatorHyde ARC Slow Gel is formulated this way to be user friendly, and to minimise problems associated with field applications.

Chemthane 2265

Chemthane 2265 is a 1:1, direct-to-metal, fast-set, spray applied polyurethane coating. It is 100% solids and contains zero VOC's. Chemthane 2265 is primarily specified as an interior lining and an exterior coating for large diameter transmission lines of potable water, waste water and raw water. Chemthane 2265 is third party specified to meet or exceed the American Water Works Association C-222-08 specification.

7 Uses of Polyurea

Food and Beverage

- Protection of surfaces in malt kilns
- Soil Stabilisation
- Sealing controlled atmosphere and nitrogen purged agricultural buildings
- Seals seafood factory floors and retail outlets (seafood markets)
- Cold room storage facilities
- Abattoir floors - Non slip and easy clean
- Sealed cheese factory vats and floor
- Non slip floor in baby food manufacturing facility

Transportation

- Abrasion resistance for street sweepers
- Abrasion resistant coatings in dump truck
- Coating trailers for hauling brine soaked hides
- Bus stops
- To line railcars for protection of product and to prevent sticking
- Highway and bridge overlays
- Horse trailer floors
- Hot asphalt dump trucks
- Line containers for transport of optical grade sand, food, and medical grade plastics
- Lining of cement mixers, ready mix trucks and chutes
- Prevent rust contamination in plastic pellet railcars
- Protecting high voltage boom trucks from electrical conductivity
- Retrofit sealed rubber transport bladders
- Reset railroad tie spikes
- Repair railcar hatches
- Sealing freezer truck trailers - Corrosion protection
- Abrasion resistance for grain truck trailers lining
- Shipping container corrosion protection
- Armaguard protection through dragonshield

Petroleum Chemical

- Concrete sanitation process stations
- Encapsulation of hazardous materials containers for burial
- Radon and methane barrier protection
- Oil well casings
- Oil refinery equipment
- Non slip safety walkways and safety rails
- Coating for catwalks on drill rigs - Non slip floor
- Sealing mud hoppers on drill rigs
- Chemical resistant coating for secondary containment
- Corrosion protection for derricks

- Secondary containment for petroleum storage
- Chemical resistant flooring in lubricants manufacturing plant
- Lining for customer grease hoppers

Military

- Coat side panels for bullet proof protection
- Spray undercarriages of off road vehicles for rust protection

Medical / Pharmaceutical

- Ambulance interiors
- Casket encapsulation
- Emergency room fit out
- X-ray room retro fits
- Dangerous goods storage
- Chemical spill containment rooms
- Chemical resistant non slip floors

Housing

- Hail, bird, traffic protection over polyurethane foam
- Asbestos and lead encapsulation
- Coat flex foam insulation for floor cushioning
- Coat utility pole butts to prevent termite damage
- Glass - protect from broken glass injuries
- Laminate adhesive for high impact plywood
- Preservation of historical sandstone building
- Roof coatings for monolithic domes
- Seal and lock screws, lap seams on metal building roofs
- Seal foundations and retaining walls

Tanks

- Airport fueling valve pits
- Tank linings for primary and secondary containment
- Water tank linings
- Protective coating over poly water tanks
- Blow mould to make portable storage tanks
- Corrosion protection for outer skin on steel tanks
- Coat inside of tank for corrosion protection on service trucks and tankers
- Bunded areas for chemical protection surrounding static tanks
- Lining ground wood pump tanks
- Marine animal training tanks

Automotive

- Vehicle undercoating
- Sealing audio equipment boxes

- Restoring vinyl roofs
- Waterproofing undercarriage
- Tyre protection for longer life
- Sealing LPG gas tanks
- Rust proofing panels
- Rock protection for undercarriage
- Foot mats in vehicles
- Corrosion protection for 4WD - ideal for 4WD's with high beach use
- To replace FRP racecar body parts
- Glass - protect from broken glass injuries

Stevedoring / Chemical Marine

- Fish boat holds
- Aircraft carrier decks, stairs and passageways
- Strut protection for hydrofoil watercraft
- To restore pilings above and below water line
- To seal heat brick on steam vessels and pipe in lieu of lagging
- Floating dock coatings
- Protect icebreakers ship bows
- Protect saltwater ballast tanks on ships
- Sealing ship holds before sailing to protect cargo
- Rust encapsulation on barges and tanks
- Boat hull protection

Piping

- Coating pipelines for corrosion control
- Valve/Pipeline fittings for sealing purposes
- Abrasion damage control on slip line pipe
- Protection from abrasion/corrosion for underground pipelines
- Insulating pipelines
- Coating of pipe insulation fittings
- To eliminate electrical conductivity on explosive carriers
- Pipe coating for cathodic disbondment protection
- Corrosion protection for pipe adapters
- Diaphragm seals for pipes
- Abrasion protection for concrete pumping discharge units
- Coating of pipe stresses
- Sealing pipe welds
- Substitute for pipe gasket fittings between flanges
- Domestic sewage piping, joining and abrasion protection
- Coat pipes to protect from rocky backfill

Mining

- Anti-stick for end loader paddles at fly ash handling facility
- Coating inside silos for containment of coal cement, chemicals and silage
- Coat underside of bush planes to prevent rock contact
- Coating containment boxes for drilling mud
- Coat metal salt and sand spreaders
- Coat roller conveyor
- Coat alternative fuel "down chute" to prevent sticking damage
- Dragline bucket protection
- Bulldozer blade protection
- Rust proofing trays of large haul units
- Slip and chemical resistant
- Fuel farm secondary containment
- Crib room floor protection
- Wash plant conveyor protection
- Non slip coating on safety steps
- Non slip grip on safety rails
- Chemical resistant containment for dangerous goods store
- Chemical/non-slip resistant flooring for wash down bays
- Coating undercarriage of haul truck for corrosion protection
- Lagoon containment on site
- Long wall conveyor coating for abrasion protection
- Leveling workshop floors
- Encapsulating earthen bunds for fuel/chemical containment
- Mill gears - Protection from corrosion and abrasion
- Coating mine site accommodation foundations and roofing - waterproofing purposes
- Service truck undercarriages - Corrosion protection
- Chute connectors
- Water tank linings
- Pump wear linings
- Coating launder linings
- Protect conveyor pulleys
- Wet sump areas for water tight sealing
- Head chute lining
- Tower stackers and discharge conveyors
- Increase flow to turbine pumps (penstock)
- Membrane and barrier for mine uses
- Placer mine trough abrasion protection
- Seal air walls in mining application

Uses of Polyurea

Roofing

- Rook coatings for metal decks
- Coatings over roof shingles
- Glass - Protect from broken glass injuries
- Roof sealing - Waterproofing
- Refurbish old roof guttering
- Protect new roof guttering from corrosion
- Refurbish and seal old existing roof tiles
- Insulate roofing with foam for temperature control
- Seal and waterproof underneath of roof

Line Marking

- Coat utility pole butts to prevent termite damage
- Highway striping
- Potting runway light fixtures on air strips
- Car parking lines with a guarantee to last
- Bitumen/asphalt line marking
- Hard court sports facilities line marking
- Zebra crossings complete with aggregate and other associated line markings for pedestrians

Ute Liners

- Ute liners for protection to trays; ideal for any trades person - bricks, tiles, landscaping supplies
- Liners for trailers
- Horse float lining protection for non slip and easy clean
- Boat trailers for rust protection
- Sound proofing for noises through tray
- Coat side steps on 4WD
- Protect roof racks from corrosion and abrasion
- Seal food storage sections of mobile take away food vehicles
- Speaker box insulation (Subwoofers)

Containment

- Holding pond liners and secondary containment on geotextile fabric
- Sealing manholes from water infiltration
- To protect concrete sewage manholes
- Aquaculture and horticulture ponds
- Spill containment on geotextile for oil well head house floors
- Water dike, dam repair and waterproofing
- Urine resistance for floors/walls of jail cells
- Sealing swimming pools on high rises
- Protecting in ground swimming pools
- In lieu of grout for concrete block containment
- Irrigation ditches, troughs and flumes
- Liners for settling ponds

- On geotextile fabric between railroad tracks for containment of solids and fluids
- Preserving sand bags on embankments to prevent washouts
- Protection of sewage digesters and clarifiers

Recreational Marine

- Protect foam floatation billets from mechanical and hydrocarbon damage
- Coat fabric surfaces of kayaks and canoes
- Waterslides
- Refurbish canoes to ensure properly waterproofed
- Seal rigid insulation in deep sea applications against hydrostatic pressure
- Boat hull protection



Polyurea being applied to Geotextile fabric for a reservoir liner.

Polyurea Elastomer Chemical Resistance Chart

Test Procedure: ASTM D1308 @ 720F

R: Recommended (little or no visible damage)

C: Recommended Conditionally (some swelling, discolouration, cracking - wash down within 1 hour of spillage)

N: Not Recommended

1: Some Discolouration only

This data represents 7 days spot test exposure for the Polyurea Elastomer System. The noted chemical; was placed on the surface area of the polyurea and exposed for the prescribed time period. This test represents industry-recognised conditions.

Test media	Results	Test Media	Results
Acetic Acid	R	Methanol	R
Acetone	C	Methanol (5%) Gasoline	C
Ammonium Hydroxide	R	Methylene Chloride C H 2C12	C
Ammonium Nitrate	R	Mineral Spirits	R
Ammonium Phosphate	R	Motor Oil	R -1
Antifreeze (50% Ethylene Glycol)	C	Nitric Acid 20%	N
Battery Acid (Sulfuric Acid)	C	Phosphoric Acid 10%	R
Benzene	C	Phosphoric Acid 50%	N
Brine - Saturated (> 30,000 ppm)	R	Potassium Hydroxide 10%	R
Brake Fluid	R	Potassium Hydroxide 20%	R -1
Chlorine (2,000 ppm in water)	R	Propylene Carbonate	C
Chlorox, 10%	C -1	Sodium Chloride	R
Citric Acid	R	Sodium Hydroxide 5%/10%/25%	R
Copper Chromate Arsenic 4% working solution	R	Sodium Hydroxide 50%	R -1
	C -1	Sodium Hypochlorite (household bleach)	
Dimethyl Formamide	N	Stearic Acid	R
Gasoline	R	Sulfuric Acid 5%/10%/20%	R
Hexane	R	Sulfuric Acid 50%/98%	N
Hydraulic Oil	R -1	Toluene	C
Hydrochloric Acid	R	1, 1, Trichloroethylene	C
Isopropyl Alcohol	R	Trisodium Phosphate	R
Lactic Acid 10%	R	Vinegar	R
Liquid Nitrogen Fertilizer (25-0-0)	R	Water	R
Liquid Urea Fertilizer	R	Xylene	R

Test Procedure: ASTM D-3912 Immersion at 75F

This data represents 12-month immersion exposure for the Polyurea Elastomer. The elas system was applied to a steel panel, having a 2 mil blast profile. The coated panels were then immersed half way into the following chemicals/solution for a period of 12 months, except where noted.

Test media	Results	Test media	Results
Acetic Acid 10%	R	Motor Oil	R -1
Acetone 7 Days	N	MTBE	R, C
Ammonium Hydroxide 10%/20%	R	MTBE/Gasoline 2%	R, C
Chromic Acid, 10%	N	Nitric Acid 5%	R
Diesel Fuel	R	Phosphoric Acid 10%	R
Ethylene Glycol	R	Sodium Chloride 10% (75F)	R
Gasoline	R	Sodium Chloride 10% (125F)	R
Hydraulic Fluid	C	Potassium Hydroxide 10%/20%	R
Hydrochloric Acid 5%, 10%	R	Sodium Hydroxide 50%	C
Hydrogen Peroxide 5%	R -1	Sodium Hydroxide 1% 50°C 14days	C
Hydrogen Peroxide 30%	N	Sodium Hypochlorite 10%	R
Isopropyl Alcohol	N	10% Sugar/Water	R
Methanol	N	Sulfuric Acid 5%/10%/3% 50* 14days	
Methylethyl Ketone	N	Toluene	N
		Water 75°F, 180F, 14days	R

➤ Coatings for Steel Tanks and Surfaces

The Emerging Leader in Polyurethane and Polyurea Technology

Direct-to-metal Coatings to Protect Steel from Corrosion

The Chemthane series of products are 100% solids spray-applied, two-component polyurethane/polyurea coatings. They can be applied directly to prepared steel without priming. Once cured, the hard polymer film offers excellent resistance to impact, abrasion and cathodic disbondment.

Since these coatings are applied quickly in a single coat at 18-40 mils (0.45-1mm), Chemthane improved productivity and increases throughput. Plus, these coatings contain no VOCs or coal tar which makes them ideal for areas with strict regulations.

When touch ups are needed, Chemthane repair kits can be quickly sprayed or hand applied in the field.

With installations in the toughest climate, Chemthane is recognised as a superior technology for protecting steel pipes from the effects of water, waste water, salt water and many chemicals.

- Polyurethane & Polyurea

Chemline offers two version to meet your application needs.

- 100% Solids

The environmentally- friendly coating contains no volatile organic compounds or harmful styrene.

- Single Coat

Chemthane is applied to a single coat, multi-pass application to create unlimited films.

- Potable Water Rated

The Chemthane Series offers a NSF/ANSI 61 standard coating for potable water applications.

- High Mechanical Properties

The exceptional physical properties of Chemthane offer superior resistance to impact and abrasion,

- Epoxy Versions

For high temperature applications, Chemcoat and Chem-Liner are available as epoxies to withstand temperatures up to 250F (121C)

- No Primer Required

To save time during production, most of Chemliner's products do not require a primer.



➤ Steel Storage Tank Protection Coatings

Superior Protection for Steel Tanks - 314.664.2230

Tank Corrosion Protection

Chemline supplies coatings and linings for both aboveground and underground steel storage tanks. Several products can be applied in one-coat, direct to metal (DTM) applications. To speed production and shipment, Chemline's coatings cure to the touch within a few minutes or just a few hours.

Underground - Exterior Tank Protection

Chemthane 2240 is a solvent free, tar-free, two component polyurethane coating. This product has a very short reaction time and is therefore spray applied using plural component spray equipment. You can apply this product directly to surface prepared steel. Unlimited film builds may be achieved in a single coat multi-pass application. Cured films are free of pores.

Chemthane 2240 demonstrates an excellent balance of flexibility, impact strength, abrasion resistance and corrosion resistance.

- Complied with Standard UL-1746 Part I & Part IV
- Extremely high toughness and impact resistance
- 1:1 mixing ratio
- Low temperature cure (down to 25F/-4C)
- Fast set times

Aboveground - Exterior Tank Protection

For these applications, we recommend our conventional airless-applied, acrylic polyurethanes: Chemthane 3107 and Chemthane 3300.

- High solids, Low VOC
- Direct to Metal (DTM) systems (Chemthane 3107)
- Three coat (Chemthane 100/Chemthane 3001/Chemthane 3300) Systems for aggressive environments
- Fast dry times
- Florida Weathering Data Available
- Colours Available

Internal Linings for Steel Tanks

Chemliner 4000 is a high solids, novolac epoxy lining. This product is self-priming and is applied to steel surfaces. It has excellent chemical resistance against jet fuel, wastewater, seawater, salt brine, sulfide gas, acid solutions, strong alkali solutions and many solvents. High cross-link density of the product makes it suitable for immersion service in aggressive environments. Consult CHEMLINE before specifying. CHEMLINER 4000 is easy to apply using a brush, roller, conventional or airless spray equipment. This product is applied in a minimum of two coats (white coat and gray coat).

- High Solids (73% by volume)
- 4:1 mix ratio
- Two coat application
- High chemical resistance for aggressive immersion environments
- Excellent adhesion to steel



➤ Pipeline Coatings

The Emerging Leader in Polyurethane and Polyurea Technology

Protect your pipe from corrosion and abrasion

The Chemthane series of products are 100% solids spray-applied, two-component polyurethane/polyurea coatings. They can be applied directly to prepared steel without priming. Once cured, the hard polymer film offers excellent resistance to impact, abrasion and cathodic disbondment.

Since these coatings are applied quickly in a single coat at 18-40 mils (0.45-1mm), Chemthane improved productivity and increases throughput. Plus, these coatings contain no VOCs or coal tar which makes them ideal for areas with strict regulations.

When touch ups are needed, Chemthane repair kits can be quickly sprayed or hand applied in the field.

With installations in the toughest climate, Chemthane is recognised as a superior technology for protecting steel pipes from the effects of water, waste water, salt water and many chemicals.

- Polyurethane & Polyurea

Chemthane offers two version to meet your application needs.

- 100% Solids

The environmentally- friendly coating contains no volatile organic compounds or harmful styrene.

- Single Coat

Chemthane is applied to a single coat, multi-pass application to create unlimited films.

- Potable Water Rated

The Chemthane Series offers a NSF/ANSI 61 standard coating for potable water applications.

- High Mechanical Properties

The exceptional physical properties of Chemthane offer superior resistance to impact and abrasion,

- Epoxy Versions

For high temperature applications, Chemcoat and Chem-Liner are available as epoxies to withstand temperatures up to 250F (121C)

- No Primer Required

To save time during production, most of Chemliner's products do not require a primer.



➤ Pipeline Coating Corrosion Protection

The new leader in Pipeline Coating Corrosion Protection Technology

Superior Pipeline Corrosion Protection

The Chemthane name is synonymous with superior pipeline corrosion protection. Whether the coating is applied in the factory, above the ditch or below it, in the extreme heat or bitter cold, Chemthane is there with the most advanced anti-corrosion pipeline coatings for the water, waste water, oil/gas and coal slurry industries.

These advanced polyurethane, polyurea and epoxy coatings feature:

- Superior physical characteristics
- 100% solids/zero V.O.C
- High build with single pass
- Fast cure and standard cure
- Direct-to-metal (DTM) application
- Excellent adhesion
- High hardness
- NSF standard 61 potable water rating
- Convenient touch up kits

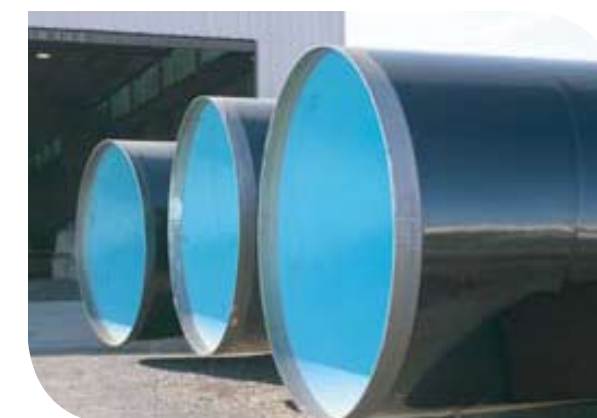
Pipeline Coatings Products

Chemthane 2261 is a solvent free, two component polyurethane protective corrosion coating (1:1 spray ratio by volume). This product has a very short reaction time and is therefore spray applied using plural component spray equipment. Application of this product is made directly to surface prepared steel or ductile iron. Primers are not necessary. Unlimited film builds may be achieved in a single coat multi-pass application. This product cures to form a hard polymer film that demonstrates excellent adhesion, abrasion resistance, chemical resistance and high mechanical strength which will ensure that cured films that are greater than 25 mils (0.6mm) in thickness will provide permanent and full effective corrosion protection for many years.

- 1:1 mix ratio
- 100% solids/zero VOC
- Direct to metal application for faster production
- AWWA C-222 compliant
- 2000+ Psi adhesion to steel

- 75 Shore A hardness
- 5200 psi tensile strength

Chemthane 2265 (NSF/ANSI-61) is a 100% solids, zero VOC coating for direct to metal application to steel pipes and tanks that require drinking water certification. This coating is applied in a single-coat multi-pass application. It dries to the touch in about 3-5 minutes to form a hard, smooth surface. This product is only applied with plural component spray equipment.



Linings for Potable Water Storage

Fast Set Polyurethane Certified to ANSI/NSF 61 for Potable Water

100% Solids Polyurethane for Pure Performance

Chemthane offers an exceptional two component polyurethane coating certified to meet requirements of ANSI/NSF 61 for potable water use. Best of all, the product can be applied in a single coat without a primer to a prepared surface,

Chemthane 2265 is a spray-applied, fast setting polyurethane which is specifically engineered to protect potable water storage tanks from the effects of corrosion, abrasion and thermal shock.

Since Chemthane 2265 is solventless (Zero VOCs), it will not transfer harmful chemicals from trapped solvents into the contents of the tank. This ensures that each drop of water is clean and pure.

The tough, flexible coating can be applied to steel or ductile iron substrates for potable water and saltwater immersion service.

- 100% Solids/Zero VOC

The coating does not contain styrene or solvents so it will not affect the taste of the water.

- Fast Cure Times

This coating quickly cures to the touch to help reduce tank downtime during maintenance.

- ANSI/NSF Standard 61 Certified

The coating is approved for potable water "PW" applications on steel and ductile iron substrates.

- Impact & Abrasion Resistant

The highly flexible coating will resist the effects of mechanical impact and abrasion.

- Direct to Metal Application

Chemthane applied to prepared steel does not require a primer in most cases.

- High Chemical Resistance

This product is engineered to handle the rigors of most chemicals encountered in water treatment facilities.

- Single Coat Application

Chemthane 2265 can be quickly built up to your desired thickness.



Gatorhyde DLX

GatorHyde DLX is a two component, 100% Solids, zero VOC's (Volatile Organic Compound), hybrid polyurea that has been developed for demanding long term immersion service in water, wastewater, and sewage applications. This polyurea displays outstanding physical properties, excellent microbial and bacteria resistance including anaerobic and aerobic microbial waste by-products. GatorHyde DLX can be applied on concrete or metal substrates (over primer) at temperatures ranging from 20°F to 250°F. This polyurea elastomer displays excellent chemical resistance, thermal stability and UV resistance. GatorHyde DLX can be lightly "stippled" for anti-skid purposes. GatorHyde DLX can be top coated for ultimate UV color fastness. GatorHyde DLX is a user-friendly, forgiving polyurea developed to minimize problems associated with applications in the field.

Available Colors

- Black
- Light Gray
- Sky Blue
- Custom colors on request. Please allow an extra 10-14 days for delivery on all custom color orders.

Installation Recommendations

Concrete — For optimum performance, the concrete should be hydro-blasted or sandblasted. The concrete should be allowed to cure a minimum of 30 days. GatorHyde DLX should be applied over IsoPrime II or PoxyPrime EPS-LT primers for maximum adhesion. It may be necessary to use PoxyPrime BF (bug-hole filler) prior to application of GatorHyde DLX to help fill bug holes and smooth the surface. After proper preparation, GatorHyde DLX should be applied in a cross directional (North, South, East, and West) method. It is recommended to apply GatorHyde DLX to a minimum thickness of 40 mils for waterproofing purposes. There is no limitation on the dry film thickness that GatorHyde DLX can be applied. A "stipple" coat can be applied for non-skid purposes after reaching desired film thickness. Contact GatorHyde for further instructions and relevant technical bulletins pertaining to GatorHyde DLX.

Priming Various Substrates

Depending on application use, choosing the right primer can be the difference between bonding

success and failure. The manufacturer recommends the following primers to be installed prior to applying GatorHyde DLX.

1. Concrete, Concrete Block & Masonry surfaces:

PoxyPrime a 100% solids epoxy primer mfg. by GatorHyde. Prior to applying said primer, all surface areas should be properly prepared by removing any and all loose dirt, grease, oil, failed pain, or coating systems. Surfaces are to be steel shot or sand blasted in order to provide the right surface profile. Once the surface has been properly prepared, PoxyPrime is to be installed at approximately 100-150 SF per gallon, depending on the porosity of the surface and recommended application specification. See mfg. for product tech data and MSDS.

2. Steel surfaces:

PoxyPrime mfg. by GatorHyde or ChemLok 213 mfg. by Lord Chemical Company. Prior to applying either of these recommended primers, make sure that the steel surface is free of all petrol chemical, paint, coatings, or any other surface contaminates. Next abrade the entire surface using the steel shot or sand blast method. Once the surface has been properly prepared, then and only then, install the specified primer to the steel surface in accordance with the manufacturers recommended coverage rate. Allow the appropriate curing time of the primer before applying the GatorHyde DLX. See manufacturer for product tech data and MSDS.

3. Aluminum & Galvanized Surfaces:

GatorHyde Wash Primer manufactured by GatorHyde is a special primer developed for use on all aluminum and galvanized surfaces prior to the application of GatorHyde DLX. All surfaces shall be properly prepared before applying primer by removing all loose dirt, dust, petrol chemicals, paint, mold release and coating systems. Once contaminants have been properly removed then apply GatorHyde Wash Primer in accordance with specification data as supplied by GatorHyde. Once primer has been applied wait the recommended amount of time prior to installing the GatorHyde DLX. See manufacturer for product tech data and MSDS.

4. Wood, Plywood, Masonite Particle Board:

PoxyPrime 100% solids epoxy primer mfg. by GatorHyde shall be the specified primer. Prior to installing PoxyPrime on any wood surface make

➤ Gatorhyde DLX

sure that the wood is dry and free from all form oils, release agents, petrol chemicals, dirt, failed paint, and other contaminants which may prevent the primer from properly bonding to the wood surface. Depending on the type of substrate, it may be necessary to apply two coats of PoxyPrime in order to eliminate the possibility of pin holing of the GatorHyde DLX when applied. Once the primer has been applied allow the primer to cure in accordance with the manufacturer's specification data prior to applying GatorHyde DLX. See manufacturer for product tech data and MSDS.

5. Fiberglass Surfaces:

IsoPrime II, a solvented, single component primer, mfg. by GatorHyde is recommended for use on all fiberglass surfaces before the application of GatorHyde DLX. Prior to preparation of the surface make sure all loose dirt, debris, petrol chemicals, release agent and primers have been thoroughly removed.

Rough up the entire surface area using a coarse, variable speed buffer with a medium to course grit sanding disk. Next wipe surface area clean with acetone before applying IsoPrime II. Do Not Apply primer full strength. It must be diluted with acetone or MEK at a volume ratio of 1/3 IsoPrime II to 2/3 MEK or acetone. (See IsoPrime II technical data for further instructions.) Once mixed, the primer can then be applied with either a cup gun, airless sprayer or can be rolled or brushed on. The product should be applied at approximately 1/2 to 1 mil (no more). Allow primer to become tack free, approximately 30 minutes. Once tack free then install GatorHyde DLX at the specified film thickness. See manufacturer for product technical data and MSDS.

Product Uses:

GatorHyde DLX can be used to rehabilitate and protect concrete or masonry surfaces which have been damaged from mechanical, chemical or temperature related abuse. GatorHyde DLX can be used as a protective, elastomeric membrane coating for applications in or on:

- Cold Storage Facilities
- Food Processing Plants
- Bottling and Canning Facilities
- Fast Food Facilities
- Airport Hangers

- Waste Water Treatment Plants
- Parking Decks and Ramps
- Walk Ways and Balcony Decks
- Industrial Facilities
- Manufacturing Facilities
- Primary/Secondary Containment over Geo-Textile Fabric
- Vertical or Horizontal Concrete or Wood Surfaces
- Masonry Block
- Insulation Board
- Sprayed on Urethane Foam
- Over FRP Board
- Cement Board
- Steel Pipe
- Commercial Kitchen or Bakery Floors

Typical Physical Properties

Tensile Strength, Psi	ASTM D412	7100
Elongation, %	ASTM D412	427
100% Modulus	ASTM D412	1136
200% Modulus	ASTM D412	2054
300% Modulus	ASTM D412	4040
Tear Strength, Pli	ASTM D624	411
Hardness, Shore D	ASTM D2240	45
Hardness, Shore A	ASTM D2240	93
Flexibility, 1/8" Mandrel	ASTM D1737	Pass
Flash Point, °F	Pensky-Martin	>200
Taber Abrasion, Mg Loss	ASTM D4060	12.3
Cs 17 Wheels	1kg, 1000 Revs	
Viscosity B-Side (75°F)	Cps	850
Viscosity A-Side (75°F)	Cps	650
Water Absorption	ASTM D471	< 1.0%

Typical Processing Properties:

Gel Time	Seconds	5
Tack Free Time	Seconds	15
Volume Ratio	V:V	1:1
A-Side Hose Temperature	°F	160
B-Side Hose Temperature	°F	160
Hydraulic Pressure, Psi		2000
Minimum While Spraying		

➤ Chemthane 6050

Polyurea Concrete Lining for Secondary Containment Applications

Chemthane 6050 is a 1:1 direct-to-metal, fast-set, spray applied polyurea coating. It is 100% solids and contains zero VOCs.

Chemthane 6050 is applied to concrete and forms a durable, flexible, seamless liner for use in secondary containment applications. It is ideal for preventing leaks and containing spills of wastewater, fuels and many other chemicals. Chemthane 6050 has exceptional resistance to impact, disbondment and chemical attack.

Typical applications for Chemthane 6050 include wastewater containment, chemical containment and spill control, fuel loading and unloading stations, water ponds, vapour barriers and landfills.

Chemthane 6050 should be applied with Chemprime 3558 Epoxy Concrete Primer for best results.

Safety

This product is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. When spraying, wear a respirator or a fresh air hood. Spraying indoors requires forced ventilation. Be sure to read MSDS in its entirety prior to using Chemthane 6050.

Packaging, Storage & Shelf Life

Chemthane 6050 is available in 55 gallon drums and 275 totes. It should be stored in sealed containers between 60 °F and 90 °F. Shelf life is 12 months under normal conditions.

Features

Chemical Resistance

Chemthane 6050 provides excellent resistance against a variety of chemicals.

Good Elongation

Chemthane 6050 is formulated with high elongation to allow for bridging of normal cracks in concrete.

Fast Set

Chemthane 6050 is formulated as a fast-set lining to minimise down times of application areas.

Pure Polyurea

Chemthane 6050 is a pure polyurea. It is not sensitive to moisture like other polyurethane or hybrid coatings.

Zero VOCs

Chemthane 6050 is a 100% solids coating and is formulated with zero VOCs.

Application

Chemthane 6050 should be applied through two-component, high pressure proportioning unit. Material and hose heaters should be between 150-170 °F. Pressure should be a minimum of 2400 psi. If A side and B side pressures are not equal, stop spraying and examine equipment. Be sure to consult with a Chemline representative for equipment and application training.

Technical Data

Property	Value
Hardness, Shore D	60
Tensile Strength, psi	2625
Tear Strength, pli	375
Elongation, %	300
Abrasion Resistance, mg loss	25
CS17 wheels, 1000g, 1000 cycles	
Permeability, perms	0.05
Application Temperature	
Substrate, °F	40 to 110
Ambient, °F	40 to 110
Gel Time	20
Tack Free Time, sec	30
Recoat Window, min	25



GatorHyde UV 100

GatorHyde UV 100 is a two component, 100% solids, No VOC's (Volatile Organic Compound), color stable, polyurea. GatorHyde UV 100 retains color and gloss for a period of many years in direct sunlight. GatorHyde UV 100 displays quick cure times and offers excellent adhesion to properly prepared substrates. The unique chemical make-up of this rapid curing polyurea hybrid enables the material to be installed on substrate temperatures as low as 0°F and as high as 225°F. This material displays excellent UV characteristics and is suitable for either interior or exterior use. GatorHyde UV 100 can be used as a protective coating over many substrates, however, it was specifically developed for O.E.M. quality applications that require good gloss and color retention.

Product Uses

GatorHyde UV 100 can be used as a protective, elastomeric membrane coating for applications in or on:

- Bed Liners for the Trucking Industry
- RV and ATV Applications on Metal Surfaces
- After Market Truck Accessories
- Farm Tractors, Equipment & ATV Hauling Beds
- Toy & RV Haulers
- RV Loading Ramp Decks
- Boat Trailers
- Snow Mobile Trailers
- Four Wheeler Loading Ramps
- Industrial Facilities
- Manufacturing Facilities
- Vertical or Horizontal Concrete or Wood Surfaces
- Masonry Block
- Insulation Board
- Sprayed on Urethane Foam
- Over FRP Board
- Cement Board
- Steel Pipe

Available Colors

- Black
- Tan
- Custom colors on request

Please allow an extra 10-14 days for delivery on all custom color orders.

APPLICATION RECOMMENDATIONS:

GatorHyde UV 100 adheres extremely well to properly prepared metal, wood and concrete

surfaces. Prior to coating procedure, make sure that the substrate is free of loose dust, dirt, rust, grease, oil, mold release agent or other contaminants that might interfere with the bonding process. Where excellent adhesion is required, it is recommended that all metal or concrete surfaces be primed before applying GatorHyde UV 100. Contact manufacturer for recommended primer and details on pump systems and accessories.

Priming Various Substrates:

Depending on application use, choosing the right primer can be the difference between bonding success and failure of a rapid curing, polyurea spray coating system.

1. Concrete, Concrete Block and Masonry surfaces

PoxyPrime, 100% solids epoxy primer, is mfg. by GatorHyde. Prior to applying said primer, all surface areas should be properly prepared by removing any and all loose dirt, grease, oil, failed paint or coating systems. Surfaces are to be steel shot or sand blasted in order to provide the right surface profile. Once the surface has been properly prepared, PoxPrime is to be installed at approximately 100-150 SF per gallon, depending on the porosity of the surface and recommended application specification. See mfg. for product tech data and MSDS sheet.

2. Steel surfaces:

PoxyPrime mfg. by GatorHyde or ChemLok 213 mfg. by Lord Chemical Company. Prior to applying either of these recommended primers, make sure that the steel surface is free of all petrol chemical, paint, coatings or any other surface contaminates. Next abrade the entire surface using the steel shot or sand blast method. Once the surface has been properly prepared, then and only then, install the specified primer to the steel surface in accordance with the manufacturer's recommended coverage rate. Allow the appropriate curing time of the primer before applying the GatorHyde UV 100. See manufacturer for product tech data and MSDS sheets.

3. Aluminum & Galvanized Surfaces:

GatorHyde Wash Primer manufactured by GatorHyde is a special primer developed for use on all aluminum and galvanized surfaces prior to the application of GatorHyde UV 100. All surfaces shall be properly prepared before applying primer

by removing all loose dirt, dust, petrol chemicals, paint, mold release and coating systems. Once contaminants have been properly removed then apply GatorHyde Wash Primer in accordance with specification data as supplied by GatorHyde. Once primer has been applied wait the recommended amount of time prior to installing the GatorHyde UV 100. See manufacturer for product tech data and MSDS sheets.

4. Wood, Plywood, Masonite Particle Board:

PoxyPrime 100% solids epoxy primer mfg. by GatorHyde shall be the specified primer. Prior to installing PoxPrime on any wood surface make sure that the wood is dry and free from all forms of oils, release agents, petrol chemicals, dirt, failed paint and other contaminants which may prevent the primer from properly bonding to the wood surface. Depending on the type of substrate, it may be necessary to apply two coats of PoxPrime in order to eliminate the possibility of pin holing of the GatorHyde UV 100 when applied. Once the primer has been applied allow the product to cure in accordance with the manufacturer's specification data prior to applying GatorHyde UV 100. See manufacturer for product tech data and MSDS sheets.

5. Fiberglass Surfaces:

IsoPrime II, solvented, single component primer, mfg. by GatorHyde is recommended for use on all fiberglass surfaces before the application of GatorHyde UV 100. Prior to preparation of the surface make sure all loose dirt, debris, petrol chemicals, release agent and primers have been thoroughly removed. Rough up the entire surface area using a coarse, variable speed buffer with a medium to course grit sanding disk. Next wipe surface area clean with acetone before applying IsoPrime II. Do Not Apply primer full strength. It must be diluted with MEK at a volume ratio of no less than 50:50. If MEK is not available, use acetone. Once the primer is mixed, it can then be applied either with a cup gun, airless sprayer or can be rolled or brushed on. The product should be applied at approximately 1/2 to 1 mil (no more). Allow primer to become tack free, approximately 30 minutes. Once tack free then install GatorHyde UV 100 at the specified film thickness. See manufacturer for product tech data and MSDS.

Physical Properties (1:1 By Vol.)

Post Cure 200°F 18 hours

Tensile Strength, Psi	ASTM D412	3722
Elongation, %	ASTM D412	425
100% Modulus	ASTM D412	1839
Die "C" Tear Strength, Pli	ASTM D624	2204
Hardness, Shore A	ASTM D2240	100
Hardness, Shore D	ASTM D2240	56
Viscosity A-Side (75°F)	Cps 1500	
Viscosity B-Side (75°F)	Cps 350	

Typical Processing Properties

Gel Time (Adjustable)	Seconds	6
Tack Free Time	Seconds	15

Application Notes

GatorHyde UV 100 adheres well to sound steel substrates. All surfaces should be free of moisture, rust, loose particles, petroleum-based products, bond breakers and other contaminating debris.

Clean-Up/Disposal

Cured product may be disposed of without restriction. The un-cured isocyanate and resin portions should be mixed together and disposed of in a normal manner. "Drip free" containers should be disposed of according to local, state, and federal laws.

Limitations

GatorHyde UV 100 is an aliphatic polyurea. The chemical resistance chart should be consulted prior to any application. Each individual user should check the product compatibility with their application requirements prior to full-scale use. Samples are available upon request.

Chemthane 2265

Polyurethane Pipeline Coating for Corrosion Control

Chemthane 2265 is a 1:1 direct-to-metal, fast-set, spray applied polyurethane coating. It is 100% solids and contains zero VOCs.

Chemthane 2265 is primarily specified as an interior lining and an exterior coating for large diameter transmission lines of potable water, waste water and raw water.

Chemthane 2265 is third party certified to meet or exceed the American Water Works Association C-222-08 Specification.

Accessory Products

Chemthane 3700 is a 100% solids, aliphatic/UV resistant, fast-set topcoat for above ground crossing, access points, under bridge spans and fords.

Chemthane 2265 Gun Grade is supplied in dual cartridges to be applied through pneumatic caulk gun for coating pipe joints and repair areas.

*3rd Party Test Results. All testing was performed in a laboratory environment. Results are for comparison purposes only and should not be considered guarantee. Field results will vary significantly due to a large number of variables.

Test Method	Description	C-222-08 Value	Chemthane 2265 Laboratory Test Results*
ASTM D4541	Adhesion to Steel	>1500 psi	>3200 psi
ASTM D4060	Abrasion Resistance	<100 mg loss	<55 mg loss
ASTM G-14	Impact Resistance	>75 in lbs.	>85 in lbs. 6cm o.d. pipe >125 in lbs. flat plate
ASTM D2240	Hardness	>65 Shore D	73 Shore D
ASTM D-22	Mandrel Bend	3" Mandrel 180°	No Cracking
ASTM D-570	Water Absorption	<2%	<1.5%
ASTM G-95	Cathodic Disbondment	<12mm	<12mm
ASTM D-149	Dielectric Strength	>250 volts/mil	>600 volts/mil
ASTM D-543	Chemical Resistance		
10% Sulfuric Acid		5% maximum change	<2%
30% Sodium Chloride		in mass, length or	<2.5%
30% Sodium Hydroxide		width after 30 day	<2%
#2 Diesel Fuel		immersion.	<3.5%

Features

AWWA C-222-08 Certified

Chemthane 2265 is third party certified to or exceed all specifications of American Water Works Association's C-222-08 protocol.

Unlimited Colour Availability

Chemthane 2265 can be matched to any colour. Standard colours are like blue, grey and off-white.

Non-Abrasive

Chemthane 2265 is formulated without the abrasive fillers that rapidly erode the spray gun module and clog the proportioning unit filters.

Non-Extended

Chemthane 2265 is formulated without plasticisers, tar, or other hydrocarbon extenders,

Minimal Overspray

Chemthane 2265 is formulated to minimise the overspray fog in the application area.

Very Low Odour

Chemthane 2265 has noticeably less odour than conventional coatings as a result of its low tendency to fog and the absence of tar extenders and aromatic solvents.

Chemthane 6055

Polyurea Geotextile Lining for Secondary Containment Applications

Chemthane 6055 is a 1:1 direct-to-metal, fast-set, spray applied polyurea coating. It is 100% solids and contains zero VOCs.

Chemthane 6055 is applied to geotextile fabric to form a durable, flexible, seamless liner for use in secondary containment applications. It is ideal for preventing leaks and containing spills of wastewater, fuels and many other chemicals. Chemthane 6055 has exceptional resistance to impact, disbondment and chemical attack.

Typical applications for Chemthane 6055 include wastewater containment, chemical containment and spill control, furl loading and unloading stations, water ponds, vapour barriers and landfills.

Safety

This product is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. When spraying, wear a respirator or a fresh air hood. Spraying indoors requires forced ventilation. Be sure to read MSDS in its entirety prior to using Chemthane 6055.

Packaging, Storage & Shelf Life

Chemthane 6055 is available in 55 gallon drums and 275 totes. It should be stored in sealed containers between 60 °F and 90 °F. Shelf life is 12 months under normal conditions.

Features

Chemical Resistance

Chemthane 6055 provides excellent resistance against a variety of chemicals.

Good flexibility and Elongation

Chemthane 6055 is formulated to be extremely flexible and have high elongation to conform to the substrate during movement.

Fast Set

Chemthane 6055 is formulated as a fast-set lining to minimise down times of application areas.

Pure Polyurea

Chemthane 6055 is a pure polyurea. It is not sensitive to moisture like other polyurethane or hybrid coatings.

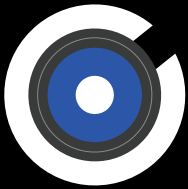
Zero VOCs

Chemthane 6055 is a 100% solids coating and is formulated with zero VOCs.

Technical Data

Property	Value
Hardness, Shore D	45
Tensile Strength, psi	1850
Tear Strength, pli	375
Elongation, %	600
Permeability, perms	0.05
Application Temperature	
Substrate, °F	40 to 110
Ambient, °F	40 to 110
Gel Time	30
Tack Free Time, sec	20
Recoat Window, min	25





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