



DuraSeal[®]



Wastewater
Solutions



Environmental
Results 





DuraSeal®

SOLUTIONS for the
Restoration and Protection
of Wastewater Structures

Clean Water IS WHAT WE'RE ALL ABOUT

DuraSeal has over 30 years experience in the research, design, installation, manufacturing and marketing of wastewater restoration products.

Our line of specialty products provide a full system solution for the repair and protection of wastewater structures. Products that seal against infiltration, exfiltration & corrosion with a 10 to 50 year design life for both brick and concrete wastewater structures.

We are a single source supplier for the municipal wastewater market. For new construction, collection system or treatment facilities we have the products for your restoration project.

For more information:
Contact us at 512-944-0895
or visit our website at
www.DuraSealUSA.com



The complete system for
wastewater structure
restoration

STOP
infiltration
& exfiltration

PROTECT
against corrosion



DuraSeal.

DuraSeal Plug is a single component blend of select cements and admixtures designed specifically for infiltration control.

DuraSeal RM is a high early compressive strength repair mortar featuring a rapid set time.

DuraSeal PM is a single component, microsilica enhanced, fiber reinforced, shrinkage compensated, high strength repair mortar, designed specifically for the rehabilitation of both brick and concrete wastewater structures.

DuraSeal CA is a single component, pure fused calcium aluminate cement, fiber reinforced, shrinkage compensated, high strength repair mortar, designed specifically for superior corrosion protection of both brick and concrete wastewater structures.

PRODUCT OVERVIEW

DuraLine is a fiber reinforced polymer epoxy. It is two-component, 100% solids, high build, spray-applied, structural grade epoxy system. The material can be hand troweled or spray applied up to 1/4" (250 mils) per pass. DuraLine when cured exhibits high strength and flexural properties for partially or fully deteriorated structures.

DuraFlex is a highly flexible, plural component product based on a urethane/epoxy hybrid elastomer formulation designed specifically for sealing manhole chimneys in municipal wastewater structures.

DuraFlex HBD is a very unique, two-component, 100% solids urethane-novolac hybrid epoxy coating system. DuraFlex HBD is a high-build, self-leveling coating system designed with a very high flexural modulus. Excellent bond to concrete, steel, and wood.

For product specifications visit our
website at www.DuraSealUSA.com.

TECHNICAL DATA

DuraSeal Plug™

DuraSeal Plug is a single component blend of select cements and admixtures designed specifically for infiltration control of both brick and concrete wastewater structures.

Recommended Uses:

- Repair active leaks in manholes, pipes and other masonry structures.
- Foundations
- Concrete walls, tanks and pits

Benefits / Features:

- Single component
- Rapid setting
- Hand applied
- Sulfate resistant

Typical Performance Data:

| | |
|----------------------|-----------|
| Compressive Strength | ASTM C109 |
| 2 Hour | 650 PSI |
| 24 Hour | 6,150 PSI |
| 28 Day | 9,260 PSI |
| Bond Strength | ASTM C882 |
| 1 Hour | 440 PSI |
| 24 Hour | 1,540 PSI |

Shelf Life:

6-12 months (dry covered storage).
High humidity will reduce shelf life.

Yield:

One (50) pound pail yields approximately .42 cubic feet.

Surface Preparation/Application:

Substrate must be structurally sound, free of oil, grease, coatings, rust and unsound concrete for the successful application of DuraSeal Plug. Prepare leak by chiseling or drilling to ½" to ¾" depth and width depending on size of leak to be repaired. Using rubber gloves, respirator or filter mask and appropriate eye protection, apply DuraSeal Plug generously to prepared surface with a gentle packing motion, then apply firm pressure for 30-45 seconds. Repeat process until leak is stopped, then patching with DuraSeal RM for a more permanent seal.

Warranty:

This product is guaranteed and warranted to be of good quality. DuraSeal will, at its sole discretion, replace this product if proven defective when stored, mixed and applied in strict accordance with DuraSeal technical product specification guidelines. DuraSeal offers no guarantee, express or implied for a particular purpose or performance.



DuraSeal RM™

DuraSeal RM is a high early compressive strength repair mortar featuring a rapid set time, designed specifically for the rehabilitation of both brick and concrete wastewater structures.

Recommended Uses:

- Repair large defects in manholes, pipes and other masonry structures.
- Bench and invert repair.
- Designed specifically for the rehabilitation of underground wastewater structures.

Benefits / Features:

- Single component
- Rapid setting
- High 28 day strength
- Non shrinking

Typical Performance Data:

| | |
|------------------------|--|
| Compressive Strength | ASTM C109 |
| 2 Hours | 3,250 PSI |
| 1 Day | 5,710 PSI |
| 28 Day | 9,950 PSI |
| Flexural Strength | ASTM C293 |
| 28 Day | 805 PSI |
| Bond Strength | ASTM C882 28 Day - 2,770 |
| Shrinkage | ASTM 596 28 Day - 0% |
| Freeze Thaw Resistance | ASTM C666 300 Cycles No Visible Damage |
| Set Time | ASTM C266 |
| Initial Set | 11 Minutes |
| Final Set | 18 Minutes |

Shelf Life:

6-12 months (dry covered storage).
High humidity will reduce shelf life.

Yield:

One (60) pound bag yields approximately .50 cubic feet.

Surface Preparation:

Substrate must be structurally sound, free of oil, grease, coatings, rust and loose concrete. Water blast or sand blast to remove all contaminants. Do not use when less than 40°F. Apply to a clean damp surface, free of any standing water.

Mixing:

Using rubber gloves, respirator or filter mask and appropriate eye protection, mix one 50 lb bag of DuraSeal RM thoroughly with up to three quarts (3) of potable water in a suitable container for 3-5 minutes. Water may be chilled or heated in order to adjust working time. Do not exceed maximum amount of water needed in order to avoid aggregate separation. Do not exceed maximum amount of water needed in order to yield highest compressive strength. Working time is approximately 15 minutes from the introduction of water and may depend upon air temperature, humidity, and wind conditions.

Application:

Material may then be troweled into place.

Warranty:

This product is guaranteed and warranted to be of good quality. DuraSeal will, at its sole discretion, replace this product if proven defective when stored, mixed and applied in strict accordance with DuraSeal technical product specification guidelines. DuraSeal offers no guarantee, express or implied for a particular purpose or performance.



DuraSeal PM™

DuraSeal PM is a single component, microsilica enhanced, fiber reinforced, shrinkage compensated, high strength repair mortar, designed specifically for the rehabilitation of both brick and concrete wastewater structures.

Recommended Uses:

- Relining of brick, block and masonry surfaces in manholes, pipes and other wastewater structures.
- Tunnels
- Containment structures
- WWTP
- Designed specifically for the rehabilitation of underground wastewater structures.

Benefits / Features:

- Single component
- Microsilica enhanced
- High compressive and flexural strengths
- Sulfate resistant
- Spray applied
- Low permeability

Typical Performance Data:

| | |
|------------------------|--|
| Compressive Strength | ASTM C109 |
| 1 Day | 6,000 PSI |
| 28 Day | 10,000 PSI |
| Flexural Strength | ASTM C348 28 Day - 1790 PSI |
| Tensile Strength | ASTM C496 28 Day - 720 PSI |
| Shrinkage | ASTM C596 28 Day - 0% |
| Bond Strength | ASTM C882 28 Day - 2620 PSI |
| Freeze Thaw Resistance | ASTM C666 300 Cycles No Visible Damage |
| Density | ASTM C138 139 +/- 5 |
| Set Time | ASTM C266 |
| Initial Set | 2 Hours |
| Final Set | 4 Hours |

Shelf Life: 6-12 months (dry covered storage). High humidity will reduce shelf life.

Yield: One (60) pound bag yields approximately .54 cubic feet.

Surface Preparation: Substrate must be structurally sound, free of oil, grease, coatings, rust and loose concrete. Water blast 3500 PSI or sand blast to remove all contaminants. Do not use when less than 40°F. Apply to a clean damp surface, free of any standing water.

Mixing: Using rubber gloves, respirator or filter mask and appropriate eye protection. Use approximately 3-4 quarts of potable water per each 60 pound bag of DuraSeal PM. First add up to 90% of the potable water into the mixer, then add DuraSeal PM and the remaining mix water as required. Mix until a homogeneous consistency is achieved. Water may be chilled to maximize working time. **Application:** Hand application, low pressure spray and rotary spin.

Curing: Properly cure in strict accordance with ACI recommendations. Apply a curing compound per the moisture retention requirements of ASTM C309 or cure in moist environment for 7 days.

Warranty: This product is guaranteed and warranted to be of good quality. DuraSeal will, at it's sole discretion, replace this product if proven defective when stored, mixed and applied in strict accordance with DuraSeal technical product specification guidelines. DuraSeal offers no guarantee, express or implied for a particular purpose or performance.



DuraSeal CA™

DuraSeal CA is a single component, pure fused calcium aluminate cement, fiber reinforced, shrinkage compensated, high strength repair mortar, designed specifically for superior corrosion protection of both brick and concrete wastewater structures.

Recommended Uses:

- Relining of brick, block and masonry surfaces in manholes, pipes and other wastewater structures.
- Tunnels
- Containment structures
- WWTP
- Designed specifically for the rehabilitation of underground wastewater structures.

Benefits / Features:

- Single component
- Superior corrosion protection
- High compressive and flexural strengths
- Spray applied
- Low permeability
- Low rebound

Typical Performance Data:

| | |
|------------------------|--|
| Compressive Strength | ASTM C109 |
| 28 Day | 9,000 PSI |
| Flexural Strength | ASTM C293 |
| 28 Day | 1,515 PSI |
| Tensile Strength | ASTM C496 |
| 28 Day | 835 PSI |
| Shrinkage | ASTM C596 28 Day - 0% |
| Bond Strength | ASTM C882 28 Day - 2,850 PSI |
| Freeze Thaw Resistance | ASTM C666 300 Cycles No Visible Damage |
| Density | ASTM C138 134 +/- 5 |
| Set Time | ASTM C266 |
| Initial Set | 30 Minutes |
| Final Set | 180 Minutes |

Shelf Life: 6-9 months (dry covered storage). High humidity will reduce shelf life.

Yield: One (60) pound bag yields approximately .54 cubic feet.

Surface Preparation: Substrate must be structurally sound, free of oil, grease, coatings, rust and loose concrete. Water blast 3500 PSI or sand blast to remove all contaminants. Do not use when less than 40°F. Apply to a clean damp surface, free of any standing water.

Mixing: Using rubber gloves, respirator or filter mask and appropriate eye protection. Use approximately 3-4 quarts of potable water per each 60 pound bag of DuraSeal CA. First add up to 90% of the potable water into the mixer, then add DuraSeal CA and the remaining mix water as required. Mix until a homogeneous consistency is achieved. Water may be chilled to maximize working time.

Application: Hand application, low pressure spray and rotary spin.

Curing: Properly cure in strict accordance with ACI recommendations. Apply a curing compound per the moisture retention requirements of ASTM C309 or cure in moist environment for 7 days.

Warranty: This product is guaranteed and warranted to be of good quality. DuraSeal will, at it's sole discretion, replace this product if proven defective when stored, mixed and applied in strict accordance with DuraSeal technical product specification guidelines. DuraSeal offers no guarantee, express or implied for a particular purpose or performance.



TECHNICAL DATA



DuraLine is a fiber reinforced polymer epoxy. It is two-component, 100% solids, high build, spray-applied, structural grade epoxy system. The material can be hand troweled or spray applied up to 1/4" (250 mils) per pass. DuraLine when cured exhibits high strength and flexural properties for partially or fully deteriorated structures.

Benefits / Features:

- 100% solids, no VOCs
- Convenient 1:1 (v) ratio
- Excellent chemical resistance
- Structural, with movement tolerance
- No sag, ultra-high build
- Surface forgiving & moisture tolerant
- Ultra-high adhesion, self-priming



Film Thickness:

DuraLine can be applied as a single coat or multi-coat system. Minimum recommended thickness is 60 – 125 mils. Maximum build-up per coat is 1/4" (250 mils) without sag per coat, depending on temperature. For applications requiring thicker lining, multiple passes may be utilized.

Theoretical Coverage:

DuraLine is 100% solids and will not shrink. Therefore, the theoretical coverage properties between wet film thickness (WFT) and dry film thickness (DFT) are the same.

One-gallon (231 cu.in.) of neat epoxy, and will yield:

- @ 1/16" (60 mils), product yields 26.7 sq.ft.
- @ 100 mils, product yields 16 sq.ft.
- @ 1/8" (125 mils), product yields 12.8 sq.ft.
- @ 1/4" (250 mils), product yields 6.4 sq.ft

Surface Preparation :

The success of any coating application is directly proportional to the extensiveness of the surface preparation and the care into the application. Surface must be clean and sound. Remove all dust, contaminants, grease, curing compounds, rust, impregnation, waxes, foreign particles, and weak or disintegrated materials from the surface, and utilize advised methods to achieve a clean and profiled surface.

Concrete: Prepare the concrete by abrasive blasting, high pressure water cleaning or jetting, and/or other approved methods to achieve clean, sound, and profiled concrete (min. ICRI CSP-3) in accordance with SSPC-SP 13 / NACE No. 6. "Surface Preparation of Concrete." NOTE: DuraLine can be applied direct to concrete (DTC), self-priming.

Steel: Inspect and remove oil, grease, chlorides or other contaminants - "Solvent Cleaning" (SSPC-SP1) may be required. Abrasive blasting (or other approved mechanical methods) SSPC-SP10 / NACE 2, "Near-White Blast Cleaning," must be administered in order to achieve a clean surface with a minimum profile of 100 microns (4 mils); remove dust and debris by high compressive air or solvent cleaning (SSPC-SP1) may be required again. Before preparing or applying on steel, verify that the temperature of the surface is at least 3 degrees C (5 degrees F) from the dew point temperature to preclude condensation. NOTE: DuraLine can be applied direct to metal (DTM), self-priming.

NOTE: Coverage values are provided as an estimate for guidance based on theoretical calculations; does not include wastage or surface conditions/imperfections.



Technical Properties:

| | | |
|-----------------------------|------------|---|
| Type | | proprietary hybrid fiber-reinforced-polymer (epoxy/epoxide) |
| Finish | | light coarse - orange peel (depending on heat & tips) |
| Mix Ratio | | 1:1 by volume |
| Solids by Volume | ASTM D2697 | 100% |
| Solvent (VOC) | ASTM D3960 | none |
| Pot Life | | 30 min. (77F / 200 g mass) |
| Adhesion Strength | ASTM D4541 | substrate failure |
| Adhesion Strength (steel) | ASTM D4541 | 2,000 psi |
| Water Absorption | ASTM D1653 | < 0.1 g/sq.m. |
| Acid Exposure (pH 1, H2SO4) | | passed |
| Tensile Strength | ASTM D638 | 7,800 psi |
| Flexural Modulus | ASTM D790 | 580,000 psi |
| Flexural Strength | ASTM D790 | 7,000 psi |
| Compressive Strength | ASTM D695 | 12,000 psi |
| Elongation | ASTM D2370 | 4.5% |
| Gel Time | | 25 min. (120F) 10 min. w/ flash exotherm (140F) |
| Complete Cure | | 24 hrs (77F, non-potable) 72 hrs (77F, potable) |
| Temperature Exposure (dry) | | 5F-180F |
| Temperature Exposure (wet) | | 32F -180F |
| Recoat Time | | when firm – no max. |

Application Method:

DuraLine can be hand troweled or sprayed utilizing specialized equipment, specified, proven and sold by approved equipment vendors. Requires fully heated, plural component system with recirculating and agitating heated hoppers up to 150F, with heated hoses. Mixing occurs in a static chamber prior to a single whip hose; and must have purging capability through the mixing chamber, the whip hose and spray gun. Purge and clean with DuraLine solvent. The system must be fixed ratio of 1:1 by volume with a minimum of 25 gallon preheating holding capacity for each part of material.

Thinning:

Do not thin.

Storage & Handling:

Shelf life: 36 months, sealed. Store in a dry area away from direct sunlight.

Packaging & Color:

Kit comes with A component and B component separately.

- 10 Gallon Kit (pails) sky blue
- 100 Gallon Drums (drums) sky blue

Safety:

Consult Material Safety Data Sheet (SDS) for all material safety information. Consult safety manuals of all equipment utilized.

TECHNICAL DATA

DuraFlex™

DuraFlex is a highly flexible, plural component product based on a urethane/epoxy hybrid elastomer formulation designed specifically for sealing manhole chimneys in municipal wastewater structures.

Recommended Uses:

- Sealing manhole chimneys
- Precast joints
- Catch basins

Benefits / Features:

- Highly flexible
- Corrosion Resistant
- 100 % solids
- Simple Application
- Effective solution to I&I

Typical Performance Data:

| | |
|---------------------|----------------------|
| Elongation | 800% ASTM D-412 |
| Tensile Strength | 1,100 psi ASTM D-412 |
| Hardness Shore A | 70 psi ASTM D-412 |
| Tear Resistance | 140LBS/IN |
| Service Temperature | -25 F. to 160 F. |
| Set Time: | |
| Initial Cure (75F) | 6 Hours |
| Final Cure (75F) | 72 Hours |
| Final Set | 30 Days |



Shelf Life: Twelve months in properly sealed containers. Store out of direct sunlight.

One Gallon Yield: A component + B component will yield .83 mixed gallons. Will cover approximately 7.84SF on a smooth surface.

Surface Preparation: F. Metal Surfaces: Sandblasting or other mechanical method to a clean sound surface with minimum 3 mil profile, free of oil, grease, coatings, rust and loose concrete. Brick/ Masonry substrate: Sandblast or pressure wash to a clean, sound surface in accordance with SSPC Sp13/NACE No.6 with ICRI CSP 3-5 profile. Apply DuraLine epoxy to a clean dry surface.

Mixing: Begin by adding bottle of part B into part A pail. Mix thoroughly with mechanical drill (3-4 minutes) until a uniform color and texture has been achieved.

DuraFlex Application: Application must be made to using stiff paint brush or trowel, apply DuraFlex at a minimum 170 mils thickness.

Limitations: Ambient & surface temperatures of minimum 60° F to 110° F. Product temperature for both part A & part B prior to mixing and application should be between 65° F & 95° F.

Warranty: This product is guaranteed and warranted to be of good quality. DuraSeal, LLC will, at it's sole discretion, replace this product if proven defective when stored, mixed and applied in strict accordance with DuraFlex specification guidelines. DuraSeal, LLC offers no guarantee, express or implied for a particular purpose or performance.





DuraFlex HBD is a very unique, two-component, 100% solids urethane-novolac hybrid epoxy coating system. DuraFlex HBD is a high-build, self-leveling coating system designed with a very high flexural modulus. Excellent bond to concrete, steel, and wood.

DuraFlex HBD is easy to apply; conveniently applied in a 1:1 mix ratio by volume. DuraFlex HBD is a “green” product, 100% solids and environmentally friendly. DuraFlex HBD is designed specifically to protect and outperform in various aggressive environments, including immersion, which are subject to movement, corrosion, microbial and chemical attack, infiltration, vibration and impact, while being tolerant to high levels of moisture and humidity during application.

DuraFlex HBD is a urethane-novolac hybrid epoxy coating with enhanced chemical resistance and crosslinking. It possesses the superior adhesion, tolerance and strength of an epoxy, combined with the flexibility (38% elongation), gloss, UV tolerance, and impact resistance of a urethane- combined as one technology. Because DuraFlex HBD can be applied by brush, roller, or spray; it provides applicators tremendous usability options and ease of application. It is self-priming and it ties back into itself indefinitely.

Typical Uses:

- DuraFlex HBD has been proven in many aggressive enclosed, immersive, and partially opened environments. DuraFlex HBD performs in areas subject to chemical attack. Ideally suited as a protective coating/lining solution for:
- Collection and treatment structures, tanks, pipes, stations, manholes, etc.
 - Joint sealing
 - Seamless and sealed coating & lining
 - Protection against corrosion for steel, concrete, wood and other substrates
 - Other industrial lining and coating applications

Benefits / Features:

- DuraFlex HBD is ideally suited aggressive enclosed, immersive, and partially opened environments. DuraFlex HBD performs in areas subject to chemical attack. Ideally suited as a protective coating/lining solution for:
- “Green” - 100% solids, no VOCs
 - Excellent chemical resistance
 - Good abrasion resistance
 - Self-priming
 - Medium-to-high build
 - Semi-flexible with formulated resilience
 - High impact strength
 - Surface tolerant
 - Cold temperature performance
 - U.V. tolerant
 - Self-leveling
 - High gloss finish
 - Easy to apply by roller, brush or spray
 - 1:1 mix ratio by volume

Film Thickness:

DuraFlex HBD can be a single coat or multiple coat system.

DuraFlex HBD can be applied onto a cementitious surface at 16 mils (minimum) to 25 mils (maximum by roller/brush) or 50 mils (maximum by spray) per coat at 77F. For a total coating thickness exceeding 25 mils (by roller/brush) or 50 mils (by spray), multiple coats are necessary.

DuraFlex HBD can be applied onto a metallic surface at 16 mils (minimum) to 20 mils (maximum by roller/brush) or 30 mils (maximum by spray) per coat at 77F. For a total coating thickness exceeding 20 mils (by roller/brush) or 30 mils (by spray), multiple coats are necessary.

Note: DuraFlex HBD has self-leveling properties and will pull back from profile peaks and settle into the valleys as it levels; therefore, if the substrate has peaks, take precautions as edge retention may prove challenging.

Theoretical Coverage:

DuraFlex HBD is a 100% solid coating that will not shrink. The theoretical coverage properties between wet film thickness (WFT) and dry film thickness (DFT) are the same. 100 ft²/gal @ 16 mils <or> 80 ft²/gal @ 20 mils <or> 64 ft²/gal @ 25 mils. Actual coverage will depend on surface conditions, irregularities, and surface profile.



Technical Properties:

| | | |
|---|-----------------------------|--|
| Finish | | Gloss |
| Mix Ratio | | 1 (A) : 1 (B) [by volume] 1.4 (A) : 1 (B) [by weight] |
| Type | | Urethane-modified-epoxy (proprietary hybrid novolac polymer blend) |
| Solids by Volume | ASTM D2697 | 100% |
| Solvent (VOC) | ASTM D3960 | none |
| Flash Point | ASTM D3278 | 255 F |
| Pot Life | | 25 min. (25 C / 200 g mass) |
| Viscosity (A Component) | ASTM D2196 | 27,500 cps @ 25 C |
| Viscosity (B Component) | ASTM D2196 | 1,800 cps @ 25 C |
| Viscosity (A & B Mixed) | ASTM D2196 | 17,200 cps @ 25 C |
| Adhesion Strength (concrete, dry) | ASTM D4541 CIGMAT CT-2/3 | substrate failure |
| Adhesion Strength (concrete/brick, wet) | CIGMAT CT-2/3 | substrate failure |
| Adhesion Strength (steel) | ASTM D4541 | 2,000 psi |
| Potable Drinking Water | ANSI/NSF-61 | conforms |
| Water Absorption | ASTM D1653 | < 0.1 g/sq.m. |
| Acid Exposure (pH 1, H2SO4) | CIGMAT CT-1 | passed |
| Hydrogen sulfide (H2S) | | 800 ppm |
| Tensile Strength | ASTM D638 | 5,873 psi |
| Flexural Modulus | ASTM D790 | 58,200 psi |
| Flexural Strength | ASTM D790 | 8,339 psi |
| Compressive Strength | ASTM D695 | 7,225 psi |
| Hardness, Shore D | ASTM D2240 | 70 |
| Elongation | ASTM D2370 | 38% |
| Cure time | | 24 hours (25 C) |
| Operational Temperature | | 40F-120F |
| Temperature Exposure (dry) | | 0F-160F |
| Temperature Exposure (wet) | | 0F-140F |
| Recoat Time | | 4 hr. (25 C) – no max. |

*DuraSeal DuraFlex HBD™ passes ASTM D2512 / D4809-02863 test for Oxygen compatibility. ** Approved by the Bureau of Petroleum Storage Systems for containment (EQ#-793)*

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DuraFlex HBD™

Continued from previous page

Surface Preparation:

The success of any coating application is directly proportional to the completeness of the substrate preparation and the care the application crew puts into the application. Surface must be clean and sound. Remove all dust, contaminants, grease, curing compounds, rust, impregnation, waxes, foreign particles, and disintegrated materials from the surface, in order to achieve a clean and profiled surface.

Concrete: Prepare the concrete by abrasive blasting, high pressure water cleaning, and/or approved mechanical method to achieve clean, sound, and profiled concrete. Prepare concrete in accordance with SSPC-SP 13/NACE No. 6, "Surface Preparation of Concrete," with an ICRI CSP profile of 3-5. Although priming is not required, in some cases when suspecting excessive moisture vapor transmission (MVT), out-gassing, or other impediments - an DuraSeal recommended primer may be considered.

Note: DuraSeal when required recommends the use of DuraSeal RM, PM or CA as the base underlayment resurfacer prior to applying DuraFlex HBD on concrete substrates to serve as a barrier underlayment resurfacer.

Metal: Before preparing steel, please inspect and remove oil, grease, or other contaminants - "Solvent Cleaning" (SSPC-SP1) may be required. Grind any weld spatter or steel weld inconsistencies. Abrasive blasting (or other approved mechanical methods) to SSPC-SP10/NACE 2 "Near-White Blast Cleaning" must be used in order to achieve a clean surface with a minimum profile of 75 microns (3 mils); remove dust and debris by high compressive air or solvent cleaning (SSPC-SP1) may be required again. DuraSeal A1 Primecoat™ is advised as a primer should the substrate be susceptible to flash-rusting, to stripe coat any edges or bends in the metal for enhancing peak retention, or should the metal not possess the characteristics to achieve optimal profiling capability.

Application Method:

Mix 1-to-1 by volume and be aware of pot life (higher temperature and mass accelerates pot life). Options: Brush, rollers, squeegee, airless/air-assisted airless, and/or plural component spray airless/air-assisted airless equipment. Heated lines and guns could be used, but not required. DuraSeal recommends DuraFlex HBD as a two-coat system.

NOTE: If spraying, DuraSeal recommends at minimal the use of a .023" orifice spray tip or greater, 45:1 ratio spray pump or greater, 3/8" hoses, with 1/4" whip.

Thinning:

To thin DuraFlex HBD, DuraSeal only permits the use of DuraSeal #1 Reduction (a formulated and compatible diluent), not to exceed 3% by volume.

Storage & Handling:

Shelf life: 24 months, sealed. Store in a dry area away from direct sunlight. The material should be conditioned to between 75° F and 90° F before use.

Packaging & Color:

4 Gallon Kit (pails)
Item# UME38-G4-R (grey)
Item# UME38-G4-T (tan)

Safety:

Consult Material Safety Data Sheet (SDS) for all material safety information.



EQUIPMENT Options

We offer a complete line of mixing, pumping and spraying equipment to apply the products we manufacture. Also, custom trailer or truck mounted equipment options can be custom designed to facilitate use with contractors existing equipment.

- Custom Spray Equipment For Restoration Mortars
- Rotary Spray – Centrifugal Application
- Heated Plural Component Application Equipment

APPLICATOR Training

To help ensure the quality performance of each product, contractor certification training is provided for material handling, equipment, surface preparation, product application and testing.

TECHNICAL Support

We offer a full system solution from product testing and development, application equipment, certified field training and testing as well as customer support.

For more information:
Contact us at 512-944-0895
or visit our website at
www.DuraSealUSA.com



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