GENERAL REQUIREMENTS
FOR FLUID APPLIED CERAMIC RADIATION CONTROL COATINGS

INTRODUCTION
Read all information in the Application Specification section before applying any Ceratech system.

PREPARATION
Preparation shall include, but not be limited to, structurally sound, solid, clean, dry, decks, sidewalls and roof surfaces.

DRAINAGE
Roof decks shall provide positive drainage or 1:12 pitch. Under normal weather conditions, 21 days of curing are needed prior to 24 hours of ponding water. No ponding is allowed for the first 48 hours after application. Should persistent ponding occur within this period, blow or sweep water from the application surface so that cure can continue. For other ponding situations, see Application Specification No. PC-3000.

VAPOR BARRIERS
Install vapor barriers where specified or required.

VENTS
Install pressure relief roofing vents where specified or required. See specific roofing substrate systems for minimum sizes.

EXPANSION JOINTS
Install expansion joints where specified or required. See architectural details.

FLASHINGS
Install flashings where specified or required. See architectural details.

INSULATION
If moisture is present in the roofing insulation, those areas shall be cut open, exposed to dry, and replaced with dry insulation.

SAFETY REQUIREMENTS
Uncured coating that has become wet from rain or other causes may be extremely slippery. Care should be exercised when walking on coating.

WEATHER & CURING CONDITIONS
Installation of coating shall be made when temperatures are 50°F and rising. Do not proceed with application of coating during inclement weather or when precipitation is imminent, or temperatures below 50°F may occur within 24 hours. Products should not be applied when humidity is in excess of 80%.

LIMITATIONS
Do not store in temperatures below 50°F. Proper curing will not occur when ponding is persistent. Ceratech's coatings are not designed for prolonged immersion in water *See Specification No. PC-3000 on ponding water.*

APPLICATION
Apply by synthetic fiber brush, roller, or spray.* Apply liberally. Do not brush out excessively. No thinning is necessary. For spray, if thinning is necessary, thin with no more than 1/2 pint of clean water per gallon. Do not thin with colors-in-oil; never add turpentine or thinners, or any other paint.

IMPORTANT: Do not apply late in day or when rain is likely, since moisture will damage the fresh paint film. Apply at temperatures above 50°F (10°C). To insure proper film formation, do not apply if temperatures below 50°F (10°C) are expected within 24 hours.

MIXING
Stir coating with drill mixer for a minimum of 3 minutes before applying the coating.**

CLEAN -UP
Brushes and equipment should be promptly cleaned in warm soapy water.

MAINTENANCE
1. Check and remove debris from drains each 6 months. Inspect for accidental damage.

2. Check white ceramic final coat for wear after first 5 years and annually thereafter. As long as the white top coat is maintained, the system should last indefinitely.

3. To repair cuts and punctures refer to the specific application specification for that surface or substrate.

WARRANTY
See Warranty Form for specific application.

*** Orifice size will change for each product. Refer to the specific application specification sheet on the product of your need.**

**** Consult your local distributor or manufacturer for recommended drill mixers.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Metal surfaces shall be clean, dry, and sound; free of all oil, dirt, rust and other coatings or contaminates which could affect the bond.

2. All joining metal sections shall be properly closed and mechanically fastened. All screws and fastening devices shall be retightened or replaced with next size larger fastener. It is required to apply a 100% urethane caulk to fasteners that do not have rubber grommets. Under irregular conditions, contact your local representative or manufacturer before application.

3. Just prior to application, all dust, dirt, and other contaminates must be removed by brushing, vacuuming, power blowing and washing, or power water washing at a minimum of 2500 p.s.i. On new galvanized metal, treat surface with a diluted vinegar solution, at a ratio of 1 part vinegar to 10 parts water, or with a commercial mixture that will properly prepare the surface for bonding. Scaling rust shall be removed by scraping and mechanical wire brush under regulations S.S.P.C.-SP1-SP3.

4. All joints and penetrations shall be sealed by one or more different methods: A) 2-3" wide self-adhering Butyl Adhesive Seam Tape to be placed on all joints and penetrations, B) 4" wide Polyester Reinforcing Fabric that is embedded into a layer of Metal Coat 901H on all joints and penetrations, and/or: C) 100% Urethane Caulk be applied all vertical and horizontal seams. Allow method "B" six to eight hours to dry. Butyl Adhesive Tape might need to be bought in wider lengths for different jobs (available in 4" and 6").

5. All expansion joints and flashings shall be installed and completed prior to application of coating.

6. As a rule of thumb, metal roofs should have a minimum 2:12 pitch for proper drainage. If slope is less than 2:12 pitch, refer to coating Application Specification No. PC-3000.

7. Apply Ceratech Metal Coat 901H to the entire surface at a rate of 80-100 sq. ft. per gallon. Allow 4 to 8 hours drying time between coats (depending on temperature and humidity). Then apply the second and final coat of Metal Coat 901 with ceramic at a rate of 80-100 sq. ft. per gallon.

8. The Ceratech metal roof system shall be applied at a minimum coverage rate of 2.3 gal/sq. over the entire roof surface with a 4:12 pitch.

9. It is important to note that coverage rate may vary due to the slope of the roof. Contact your local representative or manufacturer for your specific coverage rate if the pitch is different thann the above.

10. When using Metal Coat 901 priming is not needed unless scaling rust is present. It is recommended that a .027-.031 tip be used when applying coating with an airless sprayer.

11. If chemical solvents or acid rain is present with a 5% or more concentration within the air occupied by the structure, it is recommended that a primer coat of MC-Miozinc be applied prior to Step 7.

12. For proper coverage rate on MC-Miozinc, please contact your local representative or representative.

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Follow steps 1-5 from application specification No. MC-9010.

2. Apply Ceratech Metal Coat 901H "without ceramic" to the entire surface at a rate of 75 sq. ft. per gallon. Allow 4-8 hours curing time between coats (depending on temperature and humidity).

3. Apply Ceratech Pond Coat 30 "without ceramic" to the entire surface at a rate of 70 sq. ft. per gallon.

4. Apply Ceratech Pond Coat "with ceramic" to the entire surface at a rate of 75 sq. ft. per gallon

5. This system for a flat metal roof shall be applied at a minimum coverage rate of 3.83 gal./sq. over the entire roof surface.

*** Note: It is recommended that a .027-.031 tip be used when applying coating with an airless sprayer.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surfaces shall be clean, dry, and sound, free of oil, dust, dirt and other contaminants which could affect the bond of Ceratech's roof system.

2. If slope of roof is less than 1:12 pitch, refer to coating Application Specification No. PC-3000.

3. If a polyurethane roof substrate is desired, see Specification No. **UC-2000.**

4. If gravel is present, all gravel shall be removed by conventional methods.

5. Replace or repair decking where needed.

6. If insulation is to be replaced, see "Insulation" section of general requirements.

7. All loose dirt, gravel, dust, and debris shall be removed from roof surface with power vacuum or power washer, just prior to application.

8. A base ply of polyester cloth 36" wide and sandwich between two coats of Pond Coat 30 at a rate of 70 sq.ft. gallon starting from the lowest sloped area and moving upwards.

9. Overlap each 36" wide cloth piece by at least 4".

10. Apply a final coat of Pond Coat 30 at the same rate of 70 sq ft per gallon.

11. The Pond Coat 30 Roof Coating System for a built-up roof without gravel shall be applied in multiple coats, resulting in a minimum coverage rate of 4.28 gals./sq.

12. It is recommended that a .027-.031 tip be used when applying coating with an airless sprayer.

**** Note: Parapet walls will yield an average square foot coverage of 80 sq/ft. per gallon.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surfaces shall be clean, dry, and sound, free of oil, dust, dirt and other contaminants which could affect the bond of Ceratech's roof system. Due to transite composition, check local laws for which method of cleanig should be used.

2. If slope of roof is less than 1:12 pitch, refer to coating Application Specification No. PC-3000.

3. If broken areas are present, repairs must be filled in to conform with the rest of the roof.

4. If insulation is to be replaced, see **"Insulation"** section of General Requirements.

5. Vents should be repaired, or replaced and sealed by one of the methods on Part 9. See manufacturer for correct venting application.

6. All loose dirt, gravel, dust, and debris shall be removed from roof.

7. Roof shall be completely dry for a period of not less than 24 hours prior to applying coatings.

8. All termination points, cracks, and seams shall be repaired and sealed by one of the following methods:
   A. Sealed with urethane caulking.
   B. Reinforcing Fabric that is embedded into a layer of Pond Coat 30. Cloth width can vary in size.

   One or more of these methods may be needed in order to receive the best waterproofing system for your particular transite roof or wall.

9. The first coat of Pond Coat 30 "without ceramics shall be applied to the entire roof surface and parapet walls a rate of 1.43 gals/sq.

10. The final coat of Pond Coat 30 "ceramics" shall be applied to the entire roof surface and parapet walls at a rate of 1.43 gals/sq. An airless sprayer should be used to recieve the best results.

11. The Pond Coat 30 Transite Coating System shall be OK in a minimum coverage rate of 2.85 gals/sq.

12. It is recommended that a .027-.031 tip be used when applying coating with an airless sprayer.

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surfaces shall be clean, dry, and sound, free of oil, dust, dirt and other contaminants which could affect the bond of the polyurethane foam.

2. Foam shall be applied as per the foam manufacturer's application specification.

3. As a rule of thumb, foam should have at least a 2:12 pitch for proper drainage. If slope is less than 1:12 pitch, refer to coating Application Specification No. **PC-3000.**

4. Polyurethane foam must be given at least one coat of Pond Coat 30 within a 6 hour period after being sprayed. Depending in weather conditions, a shorter period of time may be required.

5. The first coat of Pond Coat 30 shall be applied at a rate of 70 sq.ft. per gallon over the entire foamed roof and parapet walls.** Allow 4-6 hours between coats.

6. A second and final coat of Pond Coat 30 shall be applied over the entire foamed roof and parapet walls at a rate of 70 sq. ft. per gallon.

7. The Pond Coat 30 shall be applied at a minimum coverage rate of 2:85 gal/sq. over the entire roof surface.

*** It is recommended that a .027 to .031 tip be used when applying coating with an airless sprayer.**

**** Note: Parapet walls will yield an average square foot coverage of 100 sq.ft. per gallon.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surfaces shall be clean, dry, and sound, free of oil, dust, dirt and other contaminants which could affect the bond of Ceratech's roof system.

2. All loose dirt, dust, debris, and gravel shall be removed from roof surface by power vacuum or power broom.

3. If blistered areas are found in the existing foamed roof, it is recommended that these areas be removed, prepared, and sprayed with polyurethane foam to conform with the existing roof. (Consult foam manufacturer for specific details.)

4. If blistered areas are found to be too large to repair, then a complete tear off of the polyurethane roof may be required.

5. If decking is damaged, deck must be removed and replaced with new decking.

6. If wet insulation is found under the substrate, remove the existing wet insulation and replace it with new, dry insulation of same type.

7. All expansion joints, flashing and metal work shall be installed and completed according to foam manufacturer's specifications.

8. Pressure relief vents shall be installed according to foam manufacturer's specifications.

9. Following the above specifications, refer over to Application Specification No. **UC-2000** for final application, starting at part 4. If slope of roof is less than 1:12 Pitch, refer to coating Application Specification No. PC-3000.

*** It is recommended that a .027 to .031 tip be used when applying coating with an airless sprayer.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surfaces shall be clean, dry, and sound, free of oil, dust, dirt and other contaminants which could affect the bond of the Pond Coat 30 onto the polyurethane foam.

2. The first coat of Pond Coat 30 shall be applied at a rate of 70 sq.ft. per gallon over the entire foamed roof and parapet walls.** Allow 4-6 hours between coats.

3. A second and final coat of Pond Coat 30 shall be applied over the entire foamed roof and parapet walls at a rate of 70 sq. ft. per gallon.

4. The Pond Coat 30 shall be applied at a minimum coverage rate of 2.85 gal/sq. over the entire roof surface.

*** It is recommended that a .027 to .031 tip be used when applying coating with an airless sprayer.**

**** Note: Parapet walls will yield an average square foot coverage of 100 sq.ft. per gallon.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surface shall be clean, dry, and sound; free of oil, dust, dirt, and other contaminants which could effect the bond of Ceratech's Roof System. Dirt, dust, and debris shall be removed from roof surface with power vacuum or power washer.

2. Ceratech's Pond Coat 30 is applied differently strictly due to which substrate it will be applied to. The following systems are where Pond Coat 30 can be applied.
   Built-up Roof - Step 3
   E.P.D.M. Roof Refer to - Spec. No. RR-2000
   Metal Roof Refer to - Spec. No. MC-1000B
   Polyurethane Roof Refer to - Spec. No. PC-3001
   Other roof systems must be presented to the distributor or manufacturer.

3. If gravel is present, all gravel shall be removed from roof surface. Wet vac all areas to remove grease, dirt and other foreign matter that will interfere with the adhesion of the roofing system.

4. Repair any defects including but not limited to; splits, cracks, ridges, large blisters, deteriorated flashings, cracked metal edging, decking and/or any other defects affecting the waterproofing of the roofing system.

5. Repair, reinforce and resurface all flanges, roof penetrations and base flashings as needed.

6. Clean all drains of loose material and repair where needed.

7. Complete base flashings, drains and flanged penetrations prior to application of the emulsion and polyester.

8. Reinforce all valleys and waterways with an extra layer of polyester fabric and asphalt emulsion. Extend ply at least 12" up inclines. Apply in the direction of the slope of the valley, lapping 4" on ends.

9. Over the existing, prepared roof, apply a uniform layer of asphalt emulsion using a roller or airless equipment at a rate of 4 gallons per 100 square feet. Immediately embed the fabric into the wet emulsion without wrinkles. Press into the emulsion by a soft push broom or paint roller.

10. Along perimeter, install a half width of polyester fabric followed by a full layer. At vertical transitions, run material to the toe of the cant when necessary.

11. Apply an additional layer of asphalt emulsion over imbedded polyester mesh at a rate of 5 gallons per 100 square feet by roller or airless sprayer.

12. Allow emulsion surfacing to cure. Clean the surfaces of dust and debris.

13. Apply base coat of Ceratech Pond Coat 30 at a rate not less than 1 gallon per 70 square feet over entire surface with emulsion.

14. Upon base coat drying, apply top coat of Ceratech Pond Coat 30 at a rate not less than 1 gallon per 70 square feet over entire base coat.

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surface shall be clean, dry, and sound free of oil, dust, dirt and other contaminants which could affect the bond of Ceratech's roof system.

2. Roof shall be completely dry for a period of not less than 24 hours prior to applying coatings.

3. If blistered areas are present, blisters must be cut out.

4. If decking is damaged, deck must be removed and replaced with new decking.

5. If insulation is to be replaced, see "Insulation" section of General Requirements.

6. Replace blistered area of E.P.D.M. roofing material with same according to manufacturers requirements.

7. All loose dirt, gravel, dust, and debris shall be removed from roof surface with power washer just prior to application.

8. All termination points, cracks, and seams shall be repaired and sealed by using Butyl Seam Tape. A metal or wooden roller should be used to press the tape down to insure proper adhesion.

9. Apply one coat of Ceratech's Rubber Coat 20 over entire roof and parapet walls at a rate of 100 sq. ft. per gallon.

10. A final coat of Pond Coat 30 shall be applied over entire roof and parapet walls at a rate of 70 sq. ft. per gallon.*

11. The E.P.D.M. roof coating system shall be applied in multiple coats, resulting in a minimum coverage rate of 2.42 gals/sq.

*** Note: It is recommended that a .027-.031 tip be used when applying coating with an airless sprayer. Parapet walls will yield an average square foot coverage of 85 sq.ft. per gallon.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. These specifications apply to the following roofing substrates: Mineral Cap and Three Tab Shingle.

2. Surface shall be clean, dry and sound; free of all oil, dust dirt and other contaminants which could effect the bond of Ceratech's roof system. Dirt, dust and debris shall be removed from roof surface by conventional industrial brooms, power vacuum and/or power blower. Moisture should be checked under shingles. If found under shingles or mineral cap, moisture must be removed.

3. If flashing is to be replaced, see "Flashing" Section of General Requirements.

4. If shingles are damaged or missing, clean area and replace with the same style of shingle to keep the roof looking symmetrical.

5. Apply Ceratech's Comp Coat 80 "without ceramic" over entire roof at a rate of 70 sq. ft. per gallon.

6. Apply a second coat of Ceratech's Pond Coat 30 over the entire roof at a rate of 70 sq. ft. per gallon.

7. All outer perimeter edges of roof (i.e. next to the flashing) must receive the same thickness of coating as the entire surface of roof. All shingles or edges must be bridged to the next piece of material.

8. Allow 4 to 8 hours between coats (depending on temperature and humidity).

9. The Roof Coating System for a three tab shingle roof shall be applied in multiple coats, resulting in a minimum coverage rate of 2.85 gals./sq.

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surface shall be clean, dry, and sound; free of oil, dust, dirt, and other contaminants which could effect the bond of Ceratech's Roof System. Dirt, dust, and debris shall be removed from roof surface with power vacuum or power washer.

2. If water is used to clean the surface, 72 hours must be given to ensure concrete is thoroughly dry.

3. Masonry Sealer 500 is then applied over the entire surface including all concrete parapet walls. See Technical Data Sheet for specific square footage.

4. Concrete must be given a minimum of 24 hours to charge before proceeding with application.

5. Ceratech Pond Coat 30, without ceramic, shall be applied over entire roof and parapet walls at a rate of 70 sq. ft. per gallon. Allow at least 5 to 8 hours between coats (depending on temperature and humidity.)* Apply Ceratech Pond Coat 30, with ceramic, over entire roof and parapet walls at a rate of 70 sq. ft. per gallon.

6. The Concrete Roof Coating System shall be applied in multiple coats, resulting in a minimum coverage rate of 2.85 gals./sq of Pond Coat 30.

*** Note: Parapet walls will yield an average square foot coverage of 90 sq.ft. per gallon.**

GENERAL REQUIREMENTS FOR FLUID APPLIED COATINGS FOR VERTICAL WALLS

These General Requirements are for Specification No. EC-3001, EC-3002M, IC-4000, CC-5000, MEC-500,WC-401F, and MC-1000A only

WALLBOARD
No primers necessary. After all tape and bedding is completed over joints and nail heads, proceed to specifications.

NEW MASONRY BLOCK
Use Masonry Sealer 500 as an excellent waterproofer and blocking agent to prevent using too much coating.

PREVIOUSLY PAINTED MASONRY, BLOCK, STUCCO AND ASBESTOS SIDING
All scaling and loose paint shall be removed by scraping, wire brush or sand blasting. Cracks should be repaired with a Urethane Caulk. If efflorescence (salt-like deposits) is found on masonry, remove painted surface and clean area with a 50% solution of trisodium phosphate. Spray surface with clean water after preparing surface.

METAL
No primer necessary. Proceed to specifications.

NEW WOOD
Apply "knot-sealer" to knots and streaks. Countersunk nail holes are to be filled with spackling paste. Use urethane caulk around all door and window frames. One coat of Clear Coat 50 should be applied to wood before proceeding to specifications.

NOTE: Staining woods such as cedar, fir, mahogany and redwood are required to have a stain resistant primer before further application of any Ceratech coating.

PREVIOUSLY PAINTED WOOD
Blisters, scaling paint, and mildew should be removed prior to application.

HARDBOARD SIDING
Pay close attention to areas that are damaged. Nail holes and cracks should be filled in with a urethane caulk.

WEATHER AND CURING CONDITIONS
Installation of coating shall be made when temperature is 50°F and rising. Do not proceed with application of coating during inclement weather or when precipitation is imminent or freezing may occur within 24 hours.

APPLICATION
Apply by synthetic fiber brush, roller, or airless sprayer.* Apply liberally. Do not brush out excessively. No thinning is necessary. If thinning is necessary when spraying, thin with no more than 1/2 pint of water per gallon. Do not thin with colors-in-oil, turpentine, or any oil-based thinning agents.

MIXING
Stir coating with drill mixer for a minimum of 3 minutes before applying the coating.**

IMPORTANT
Do not apply late in the day or when there is more than a 50% chance of rain. Apply at temperatures above 50° F (10°C). To insure proper film formation, do not apply if temperatures below 50°F (10°C) are expected within 24 hours.

CLEAN-UP
Brushes and equipment should be promptly cleaned in warm, soapy water.

WARRANTY
See Warranty for specific application.

*** Orifice size will change for each product. Refer to the specific Application Specification sheet on the product of your need.**

**** Consult your local distributor or manufacturer for recommended drill mixers.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surface shall be clean, dry, and sound. Existing surface dirt, tar, grease and film should be removed from surface as much as possible before application.

2. Countersink and fill nail holes with spackling paste.

3. Stained woods, such as redwood, cedar, mahogany, and fir plywood, require priming with a stain resistant primer before application. Other types of wood should be given a thin coat of Clear Coat 50 or Poly Coat 5050 to block the pores and prevent excessive use of coatings. New metal should also be primed with Metal Coat 901H, without ceramic.

4. Blistering and peeling are usually a result of trapped moisture. The old paint must be completely removed by stripping or power sanding. Lightly sand all glossy surfaces.

5. Mildew (dark, gray discoloration) must be removed. Scrub the surface with a strong solution of household bleach and water and rinse thoroughly. Apply Ceratech's Exterior Wall Coat 3 as soon as surface is dry. Multiple coats may be needed depending on the condition and porosity of substrate.

6. Stir coating thoroughly before applying.

7. Applications may be by synthetic fiber brush, roller or spray. Apply liberally. Do not brush out excessively. (See Technical Data Sheet for coverage.)

8. Roll, brush, or spray in even, consistent coats without run down. Two coats are generally required on most substrates.

9. No thinners necessary. Never add thinners to any Ceratech coatings unless approved by Ceratech prior to application.

10. It is recommended that a .023 to .029 tip be used when applying coating with an airless sprayer.

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surface shall be clean, dry, and sound. Existing surface dirt, tar, grease and film should be removed from surface as much as possible before application.

2. Blistering and peeling paint is usually a result of trapped moisture. This must be completely removed by stripping or power sanding. Lightly sand all glossy surfaces.

3. Mildew (dark, gray discoloration) must be removed. Scrub the surface with a strong solution of household bleach and water and rinse thoroughly.

4. Allow surface to completely dry.

5. Fill in cracks or voids 1/8" in width with concrete filler or an acrylic based crack filler designed for masonry.

6. Apply one coat of Ceratech Masonry Sealer 500 over entire area. (See technical data sheet for coverage.)

7. Apply Exterior Wall Coat 3 over entire surface. (See Technical Data Sheet for coverage.)

8. Applications may be made by synthetic fiber brush, roller or spray. Apply liberally. Do not brush out excessively.

9. Roll, brush, or spray in even, consistent coats without run down. Two coats are required on most substrates.

10. No thinners necessary. Never add thinners to any Ceratech coatings uless approved by Ceratech prior to application.

11. It is recommended that a .021 to .023 tip be used when applying coating with an airless sprayer. Masonry Sealer 500 can be applied through a garden sprayer if desired.

Specification No: MEC-500
Product No: Masonry Sealer 500
Above Ground Masonry, Concrete, Stucco, Plaster, Brick,
Hadite Block, Limestone, Walls, Floors, Roofs

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Read M.S.D.S. information prior to applying Masonry Sealer 500.

2. Surface shall be clean, dry, and sound. Existing surface dirt, tar, grease and film should be removed from surface as much as possible before application.

3. Blistering and peeling paint is usually a result of trapped moisture. This must be completely removed by stripping or power sanding.

4. Mildew (dark, gray discoloration) must be removed. Scrub the surface with a strong solution of household bleach and water and rinse thoroughly.

5. Fill in cracks or voids 1/8" in width with concrete filler or an acrylic based crack filler designed for masonry.

6. Protect the following materials which can be damanged by the solvents, including if applicable:
   - Window-glass, plastic, or lexan
   - Shrubs and plant life
   - Polystyrene insulation
   - Polycarbonate glazings and other glazings and asphaltic materials
   - Metal-primed and bare
   - Membrane roofing
   - Painted or coated surfaces
   - Other non-masonry, dense and non-porous surfaces

7. Allow surface to completely dry for 72 hours if surface is cleaned with water.

8. Apply with a single flood coat. Apply until the Masonry Sealer 500 runs or stands. Vertical surfaces should be treated from the bottom up. Proper quantities are being applied when the excess Masonry Sealer 500 runs six (6) to eight (8) inches below the spray pattern before penetrating the surface which has just been sprayed. Proper quantities on horizontal surfaces are being applied when Masonry Sealer 500 stands (ponds) for sixty (60) seconds before completely penetrating. The coverage will vary with the absorbency and surface texture.

9. Apply Masonry Sealer 500 with an airless sprayer, motor driven spray apparatus. Equipment generally needs no clean up other than drainage of all lines and emptying of all containers.

10. As soon as the Masonry Sealer 500 is evaporated, the surface is set and can be exposed to traffic. On cool and humid days, evaporation of the Masonry Sealer 500 may be longer.

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surface shall be clean, dry, and sound. Existing surface dirt, tar, grease and film should be removed from surface before application.

2. Countersink and fill nail holes with spackling paste. Tape and bed seams.

3. Stained woods, such as redwood, cedar, mahogany, and fir plywood, require priming with a stain resistant primer before application.

4. Blistering and peeling are usually a result of trapped moisture. The old paint must be completely removed by stripping or power sanding. Lightly sand all glossy surfaces.

5. Mildew (dark, gray discoloration) must be removed. Scrub the surface with a strong solution of household bleach and water and rinse thoroughly. Apply Ceratech Interior Wall Coat 40 as soon as surface is dry.

6. Stir coating thoroughly before applying.

7. Applications may be by synthetic fiber brush, roller or spray.* Apply liberally. Do not brush out excessively.

8. Roll, brush, or spray in even, consistent coats without run down. Two coats are required on most substrates.

9. No thinners necessary. Never add turpentine or any other paint.

10. For coverages see Technical Data Sheet.

*** It is recommended that a .023 to .028 tip be used when applying coating with an airless sprayer.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surface shall be clean, dry, and sound. Existing surface dirt, tar, grease and film should be removed from surface before application.

2. Applications may be by synthetic fiber brush, roller or spray.* Apply liberally. Do not brush out excessively.

3. Stir coating thoroughly before applying.

4. For coverages, see coverage chart on Technical Data Sheet.

5. Application specification for Clear Coat 50 is for vertical substrates. As a blocking agent it is not intended to be used to hold up to atmospheric conditions. May possibly whiten when water comes into contact with it but will recover.

*** It is recommended to use a garden sprayer when applying coating.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surfaces must be dry and free of oil, dirt, flaking rust, and other contaminants which could affect the bond of High Temp Coat 350. On all non-porous metal, substrate should be etched by methods SSPC-1 - SSPC-5 before application of High Temp Coat 350.

2. Sand blasting is not necessary if a 2500 p.s.i. power washer is used to remove all debris. If sand blasting is used, a commercial sand blaster is all that is required.

6. If piping is in operation during application, a "fog" coat must be applied to the entire surface of the metal. Allow the coating to dry for approximately 30 minutes.

7. Imbed a high temperature reinforcement cloth into a pail of High Temp 350 . The cloth should be wrapped around the piping as normal air duct wrapping is applied. Wrapping should be done in sections to allow a second coat of High Temp Coat 350 to be applied over the cloth . It is necessary to apply the High Temp Coat 350 to cover the cloth. This will be at a rate of approximately 60 -70 square feet per gallon. Allow coating to dry for approximately 2 hours.

8. Apply a final coat of High Temp Coat 350 over the entire surface at a rate of 60 sq. ft. per gallon.

9. In order for the High Temp Coat 350 to work completely and effectively, the entire piping will have to be coated

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surfaces must be dry and free of oil, dirt, flaking rust, and other contaminants which could affect the bond of Metal Coat 901. On all non-porous metal, substrate should be cleaned by methods SSPC-1 - SSPC-5 before application of Metal Coat 901.

2. Sand blasting is not necessary if a 2500 p.s.i. power washer is used to remove all debris. If sand blasting is used, a commercial sand blaster is all that is required.

3. Once surface is cleaned and dry, the first coat of Metal Coat 901 should be applied to the entire surface at the rate of 85 - 100 square feet per gallon. Allow coating to dry for 2-3 hours.

4. Apply a second and final coat of Metal Coat 901 at the same rate of 85 - 100 square feet per gallon to the entire surface.

5. If air ducting is currently in place no other steps are required.

6. If air ducting is not in place, air ducting should be hung and placed in properly according to manufacturers requirements.

7. Once air ducting is in place, it is recommended that areas that have been scrapped, be touched up with brush to ensure a monolithic surface through the entire ducting.

8. In order for the Metal Coat 901 to work completely and effectively, the entire ducting will have to be coated from the condensor unit to the end of the ducting. Spot treating the air duct with the Metal Coat 901 will not give a beneficial reading or stop all condensate from occuring.

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surface shall be clean, dry, and sound. Existing surface dirt, tar, grease and film should be removed from surface as much as possible before application.

2. Blistering and peeling paint is usually a result of trapped moisture. This must be completely removed by stripping or power sanding. Lightly sand all glossy surfaces.

3. Mildew (dark, gray discoloration) must be removed. Scrub the surface with a strong solution of 50/50 household bleach and water and rinse thoroughly.

4. Allow surface to completely dry.

5. Apply Metal Coat 901 on the roof tank at a rate of 100 square feet per gallon. Apply Metal Coat 901 on the side walls at a rate of 100 square feet per gallon.

6. Coating should be approximately 8 mils.dry thickness on the roof and 8 mils dry thickness on the walls.

7. Allow Metal Coat 901 to be touch dry (2-4 hours depending on humidity and ambient temperature).

8. Apply a second and final coat of Metal Coat 901 on the roof tank at a rate of 100 square feet per gallon. Apply a second and final coat of Metal Coat 901 on the side walls at a rate of 100 square feet per gallon.

9. Final coating application should yield approximately 16 mils.dry thickness on the roof and wall surfaces

10. If coating is applied too thick, cracking may occur due to moisture trapped in the coating.

11. Coating will fully cure in 3-4 days and will adhere tighter to the substrate over time.

12. Clean brush and airless sprayer immediately after application with clean warm water and allow to dry.

13. No thinners necessary. Never add turpentine or any other paint to coatings.

GENERAL REQUIREMENTS
FOR FLUID APPLIED COATINGS

These General Requirements are for Specification No. SS-6000, DC-7000, DC-7002

INTRODUCTION
Read all information in the Application Specification section before applying any Ceratech system.

PREPARATION
shall include, but not be limited to, structurally sound, solid, clean, dry, decks, floor surfaces.

SAFETY REQUIREMENTS
Uncured coating that has become wet from rain or other causes may be extremely slippery. Care should be exercised when walking on coating.

WEATHER & CURING CONDITIONS
Installation of coating shall be made when temperatures are 50°F and rising. Do not proceed with application of coating during inclement weather or when precipitation is imminent, or temperatures below 50°F may occur within 24 hours. Products should not be applied when humidity is in excess of 80%.

LIMITATIONS
Do not store in temperatures below 50°F. Hydrostatic pressure.

APPLICATION
Apply by synthetic fiber brush, or roller. Apply liberally. Do not brush out excessively. No thinning is necessary. Do not thin with colors-in-oil; never add turpentine or thinners, or any other paint.

IMPORTANT: Do not apply late in day or when rain is likely, since moisture will damage the fresh paint film. Apply at temperatures above 50°F (10°C). To insure proper film formation, do not apply if temperatures below 50°F (10°C) are expected within 24 hours.

MIXING
Stir coating with drill mixer for a minimum of 1 minute before applying the coating.**

CLEAN-UP
Equipment should be promptly cleaned in warm soapy water. Throw away brushes, roller covers and containers according to local, State, and/or Government regulations.

MAINTENANCE
1. Check floor coating for wear after first 2 years and annually thereafter. As long as the top coat is maintained, the system should last indefinitely.

WARRANTY
See Warranty Form for specific application.

**** Consult your local distributor or manufacturer for recommended drill mixers.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surface shall be clean, dry, and sound. Existing surface dirt, tar, grease and film should be removed from surface as much as possible before application.

2. If restriping over existing paint, blistering and peeling paint should be removed before coating.

3. Stir coating thoroughly before application.

4. No thinner required for brush or spray application. If thinning is necessary, we recommend 1/2 pint of water per gallon. Never add turpentine, paint thinner, mineral spirits or any oil-based thinning agent.

5. Application may be by synthetic fiber brush, roller, spray or striping machine. Apply liberally in even consistent coats. Do not brush or roll out excessively. When spraying, use a **NIOSH/MESA** approved respirator. (See M.S.D.S.)

6. For coverages, refer to Technical Data Sheet.

7. Do not apply when air, paint, or surface temperature is below 40°F. (Recommended temperature 45°F and rising.)

8. Self-priming. Priming not required.

9. Dries to touch, 2 to 8 minutes. Recoat in 1 hour. Traffic in 2 hours.

10. Clean brushes, rollers, and spray equipment immediately with warm, soapy water.

11. Cautions and Warnings: Must be applied to base substrate. Do not take internally. Avoid contact with eyes. If contact with eyes occurs, flush immediately with water and contact a physician for medical attention if irritation persists. Avoid prolonged contact with skin. Avoid breathing mist. **KEEP OUT OF REACH OF CHILDREN. DO NOT ALLOW TO FREEZE.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surface shall be clean, dry, and sound. Existing surface dirt, tar, grease and film should be removed from surface before application.

2. If applying over existing paint, blistering and peeling paint should be removed before coating.

3. Stir coating thoroughly before application.

4. No thinner required for application. If thinning is necessary, we recommend no more than 1/2 pint of water per gallon. Never add turpentine, paint thinner, mineral spirits or any oil-based thinning agent.

5. Application may be by synthetic fiber brush, roller, spray*. Apply liberally in an even consistent coat. Do not brush or roll out excessively. When spraying, use a **NIOSH/MESA** approved respirator. (See M.S.D.S.)

6. Apply Cool Deck 70 over entire surface. For coverages refer to Technical Data Sheet.

7. Do not apply when air, paint, or surface temperature is below 40°F. (Recommended temperature 45°F and rising.)

8. A second coat may be applied in 1 to 2 hours, depending on ambient temperature and humidity.

9. Clean brushed, rollers, and spray equipment immediately with warm, soapy water.

10. Cautions and Warnings: Must be applied to base substrate. Do not take internally. Avoid contact with eyes. If contact with eyes occurs, flush immediately with water and contact a physician for medical attention if irritation persists. Avoid prolonged contact with skin. Avoid breathing mist. **KEEP OUT OF REACH OF CHILDREN. DO NOT ALLOW TO FREEZE.**

11. If water proofing is a concern, apply Masonry Sealer 500 directly to concrete before applying Ceratech's deck coating system. Check Technical Data Sheet for coverage rate. Masonry Sealer 500 is only applicable for concrete type surfaces.

* **It is recommended that a .017 to .024 tip be used when applying coating with an airless sprayer.**

GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. Surface shall be clean, dry, and sound. Existing surface dirt, tar, grease and film should be removed from surface as much as possible before application.

2. If applying over existing paint, blistering and peeling paint should be removed before coating.

3. Stir coating thoroughly before application.

4. No thinner required for application. Never add turpentine, paint thinner, mineral spirits or any oil-based thinning agent.

5. Application may be by synthetic fiber brush, roller, spray*. Apply liberally in even consistent coats. Do not brush or roll out excessively. When spraying, use a **NIOSH/MESA** approved respirator. (See M.S.D.S.)

6. Apply Poly Coat 5050 over entire surface. For coverages, refer to Technical Data Sheet.

7. Do not apply when air, paint, or surface temperature is below 40°F. (Recommended temperature 45°F and rising.)

8. A second coat may be applied in 1 to 2 hours, depending on ambient temperature and humidity.

9. Clean brushes, rollers, and spray equipment immediately with warm, soapy water.

10. Cautions and Warnings: Must be applied to base substrate. Do not take internally. Avoid contact with eyes. If contact with eyes occurs, flush immediately with water and contact a physician for medical attention if irritation persists. Avoid prolonged contact with skin. Avoid breathing mist. **KEEP OUT OF REACH OF CHILDREN. DO NOT ALLOW TO FREEZE.**

*** It is recommended that a .017 to .024 tip be used when applying coating with an airless sprayer.**