SECTION 09 93 20

HARDWOOD ATHLETIC FLOOR FINISHING AND MAINTENANCE

(Bona Facility Solutions SuperCourt)

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\*\* NOTE TO SPECIFIER \*\* Bona US; wood floor finishing and maintenance products.  
.  
This section is based on the products of Bona US, which is located at:  
24 Inverness Place E. Suite 100  
Englewood, CO 80112  
Toll Free Tel: 800-872-5515  
Tel: 303-371-1411  
Fax: 303-307-5029  
Email: [request info (Frank.Coppolino@bona.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Bona+US&coid=30999&rep=&fax=303-307-5029&message=RE:%20Spec%20Question%20(09932bon):%20%20&mf=)  
Web: <https://www.bona.com>   
 [ [Click Here](https://www.arcat.com/arcatcos/cos30/arc30999.html) ] for additional information.  
  
At Bona we are committed to the whole lifetime of hardwood floors. We are devoted to providing solutions that keep a floor perfect during its entire life. Through our long commitment and constant search for innovation we are able to offer lasting, sustainable results for professionals and floor owners. With Bona you can expect a commitment that lasts for generations.  
  
Today Bona is a world leading innovator with a unique system, having local presence all across the world. Since established in 1919 we are now, through subsidiaries and distributors, present in more than 50 different countries all over the world.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Hardwood athletic floor finishing and maintenance of the following types:
       1. Athletic floor finish.
       2. Athletic floor maintenance.
       3. Floor care and maintenance products.
       4. Waterborne finishes.
       5. Waterborne sealers.
       6. Oil-based sealers.
       7. Paints.
       8. Flooring recoat system.
    2. Resilient floor renovation.
       1. Antislip Additive
       2. Floor repair.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 09 64 00 - Wood Flooring.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Preparation instructions and recommendations.
        2. Storage and handling requirements and recommendations.
        3. Installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
  1. QUALITY ASSURANCE
     1. Installer Qualifications: Trained in application of the manufacturer's floor products.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
       3. Refinish mock-up area as required to produce acceptable work.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Store products in manufacturer's unopened packaging until ready for installation.
     2. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.
  2. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Bona US, which is located at: 24 Inverness Place E. Suite 100; Englewood, CO 80112; ASD Toll Free Tel: 800-872-5515; Tel: 303-371-1411; Fax: 303-307-5029; Email: <Frank.Coppolino@bona.com>; Web: <https://www.bona.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

\*\* NOTE TO SPECIFIER \*\* Our Athletic Floor Care (AFC) finishes are the top athletic finishes in the industry for durability and appearance. The premium products within our portfolio are specifically formulated to meet all federal and state clean air quality standards and are for professional use on maple athletic floors. Delete if not required.

* 1. ATHLETIC FLOOR FINISH
     1. Waterborne Polyurethane Floor Finish:

\*\* NOTE TO SPECIFIER \*\* A premium two-component waterborne wood floor finish. Specifically formulated for professional use on maple sport floors, providing a tough, high-build urethane finish.

* + - 1. Product: Bona SuperCourt HD.
         1. Ingredients: Water, polymeric resin, dipropylene glycol monomethyl ether, diproplene glycol n-butyl ether, and propylene glycol.
         2. Color: Milky, off white (wet).
         3. pH: 7.8 to 8.3.
         4. Solids: 30 to 32 percent.
         5. Viscosity: 25 to 35 cP.
         6. Density: 8.68 lbs./gallon (1.04 S.G.).
         7. US Regulatory VOC: 275 g/L.
         8. Gloss Level: (60 degrees) 85 Plus.
         9. Odor: Non-offending.
         10. Stability: 1-year shelf life in unopened container.
         11. Clarity: Clear when dry.
         12. Leveling: Excellent.
         13. Defoaming: Excellent.
         14. Drying Time: 2 to 3 hours.
         15. Maximum Cure: 100 percent in 3 days.

\*\* NOTE TO SPECIFIER \*\* Bona SuperCourt Optum is a premium one-component waterborne athletic wood floor finish. Unsurpassed scuff, scratch and chemical resistance at full cure, exceptional build with excellent flow and leveling.

* + - 1. Product: Bona SuperCourt Optum.
         1. Ingredients: Water, polymeric resins, and propylene-base glycol ethers.
         2. Color: Milky white (wet).
         3. pH: 8.5.
         4. Solids: 31 percent.
         5. Density: 8.60 lbs./gallon (1.03 S.G.).
         6. Viscosity: 20 - 30 cP.
         7. US Regulatory VOC Compliant: 275 g/L.
         8. Gloss Level: (60 degrees) - Gloss, 85+.
         9. Odor: Very slight non-offensive odor.
         10. Stability: 1-year shelf life in unopened container.
         11. Clarity: Clear and colorless when dry.
         12. Leveling: Excellent.
         13. Defoaming: Excellent.
         14. Drying Time: 2-3 hours.
         15. Percent Cured After 24 Hours: 70 percent, 72 hours - 90 percent.
         16. Maximum Cure: 100 percent after 1 week.

\*\* NOTE TO SPECIFIER \*\* Bona SuperCourt ONE is a leading one-component athletic wood floor finish for durability and appearance. A waterborne wood floor finish, it's specifically formulated for professional use on maple sport floors, providing a tough, urethane finish with good build.

* + - 1. Product: Bona SuperCourt ONE.
         1. Ingredients: Water, polymeric resin, Propylene-based glycol ether, levelling and defoaming agents.
         2. Color: Milky white (wet).
         3. pH: 8.0.
         4. Solids: 32.5 percent.
         5. Viscosity: (#4 Ford cup at 25 degrees C) approx. 17 seconds.
         6. Density: 8.66 lbs./gallon (1.04 S.G.).
         7. US Regulatory VOC: 200 g/L.
         8. Odor: Non-offending.
         9. Stability: 1-year shelf life in unopened container.
         10. Clarity: Clear when dry.
         11. Leveling: Excellent.
         12. Defoaming: Excellent.
         13. Drying Time: 2-3 hours.
         14. Percent Cured After 24 Hours: 70 percent; after 72 hours - 90 percent.
         15. Maximum Cure: 100 percent after 1 week.
    1. Oil Modified Polyurethane Floor Finish:

\*\* NOTE TO SPECIFIER \*\* Bona SuperCourt Poly is a premium quality, oil-modified polyurethane developed specifically for the athletic wood floor industry. Bona SuperCourt Poly provides an extremely tough, high-build gloss finish with superior flow and leveling.

* + - 1. Product: Bona SuperCourt Poly.
         1. Ingredients: Oil-modified polyurethane resin, mineral spirits (solvent), driers.
         2. Color: Light amber.
         3. Solids: 43 percent
         4. Viscosity: (#4 Ford cup at 25 degrees C) approx. 14-16 seconds.
         5. Density: 7.3 lbs./gallon (0.9 S.G.).
         6. US Regulatory VOC: 500 g/L.
         7. Gloss Level (60 degrees): 90+.
         8. Odor: Mineral spirits.
         9. Stability: Two-year shelf life in unopened container.
         10. Flash Point: 103 degrees F (39 degrees C).
         11. Clarity: Clear when dry.
         12. Leveling: Excellent.
         13. Defoaming: Excellent.
         14. Drying Time: 8-12 hours.
         15. Percent Cured After 24 Hours: 50 percent.
         16. Maximum Cure: 2 weeks.

\*\* NOTE TO SPECIFIER \*\* Bona SuperCourt Poly 350 is a premium quality, oil-modified polyurethane developed specifically for the athletic wood floor market. SuperCourt Poly 350 is low VOC, and provides an extremely tough, high build gloss finish with excellent chemical resistance, protecting against perspiration and routine cleaning. Bona SuperCourt Poly 350 is specially formulated to meet all federal and state clean air quality standards.

* + - 1. Product: Bona SuperCourt Poly 350.
         1. Ingredients: Oil-modified polyurethane resin, mineral spirits (solvent), driers.
         2. Color: Amber.
         3. Solids: 52-55 percent.
         4. Viscosity: (#4 Ford cup at 25 degrees C) approx. 22-26 seconds.
         5. Density: 7.6 lbs./gallon (.91 S.G.).
         6. US Regulatory VOC: 350 g/L.
         7. Gloss Level (60 degrees): 90+.
         8. Odor: Mineral spirits.
         9. Stability: Two-year shelf life in unopened container.
         10. Flash Point: 104 degrees F (40 degrees C).
         11. Clarity: Clear when dry.
         12. Leveling: Good.
         13. Defoaming: Excellent.
         14. Drying Time: 18-24 hours (based on recommended coverage rate, under ideal conditions).
         15. Coverage: 600-650 square feet per gallon.
         16. Percent Cured After 24 Hours: 50 percent.
         17. Maximum Cure: 2 weeks.

\*\* NOTE TO SPECIFIER\*\* Bona Sport Poly 275 is a premium quality, oil-modified polyurethane developed specifically for the wood sport floor market. Bona Sport Poly 275 is low VOC and provides an extremely tough, high build gloss finish with excellent chemical resistance, protecting against perspiration and routine cleaning. Bona Sport Poly 275 is specially formulated to meet all federal and state clean air quality standards.

* + - 1. Product: Bona Sport Poly 275 as manufactured by Bona US.
         1. Ingredients: Oil-modified polyurethane resin, mineral spirits (solvent), silicone fluid (solvent), driers.
         2. Color: Amber.
         3. Clarity: Clear when dry.
         4. Solids: 57 to 59 percent.
         5. Viscosity: (#4 Ford cup at 25 degrees C) approx. 18 to 24 seconds.
         6. Density: 7.6 lbs/gallon (0.91 S.G.).
         7. US Regulatory VOC: 275 g/L.
         8. Gloss Level (60 degree): 90+.
         9. Odor: Mineral spirits.
         10. Flash Point: 104 degrees F (40 degrees C).
         11. Stability: 1-year shelf life in unopened container.
         12. Percent Cured After 24 Hours: 50 percent.
         13. Maximum Cure: 2 weeks.
         14. Leveling: Good.
         15. Defoaming: Excellent.
         16. Drying Time: 18 to 24 hours.
         17. Coverage: 500 to 600 square feet per gallon.

\*\* NOTE TO SPECIFIER \*\* Bona SuperCourt Poly 450 is a premium quality, oil-modified polyurethane developed specifically for the athletic wood floor market. Bona SuperCourt Poly 450 provides an extremely tough, high build gloss finish with excellent chemical resistance, protecting against perspiration and routine cleaning. Bona SuperCourt Poly 450 meets the federal and most state clean air quality standards.

* + - 1. Product: Bona SuperCourt Poly 450.
         1. Ingredients: Oil-modified polyurethane resin, mineral spirits (solvent), driers.
         2. Color: Light amber.
         3. Solids: 50 percent.
         4. Viscosity: (#4 Ford cup at 25 degrees C) approx. 21-24 seconds.
         5. Density: 7.5 lbs./gallon (.90 S.G.).
         6. US Regulatory VOC: 450 g/L.
         7. Gloss Level: (60 degrees) - 90+.
         8. Odor: Mineral spirits.
         9. Stability: Two-year shelf life in unopened container.
         10. Flash Point: 110 degrees F (40 degrees C).
         11. Clarity: Clear when dry.
         12. Leveling: Good.
         13. Defoaming: Excellent.
         14. Drying Time: 12-16 hours.
         15. Coverage: 600 square feet per gallon.
         16. Percent Cured After 24 Hours: 50 percent.
         17. Maximum Cure: 2 weeks.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. ATHLETIC FLOOR MAINTENANCE
     1. Floor Cleaners:

\*\* NOTE TO SPECIFIER \*\* Bona SuperCourt Cleaner is a professional strength, waterborne cleaner formulated for unwaxed, polyurethane finished wood floors. This environmentally responsible cleaner leaves no residue and will not dull the floor's finish.

* + - 1. Product: Bona SuperCourt Cleaner.
         1. Leaves no residue.
         2. Safe for wood floors.
         3. Specifically designed for gym floor cleaning/auto scrubber.
         4. Tilt-n-Measure for easy use.
         5. Concentrated 1:128.
         6. Green Seal Certified.

\*\* NOTE TO SPECIFIER \*\* Delete accessories not required.

* + 1. Accessories:
       1. Bona SuperCourt Athletic Floor Care System.
       2. Bona SuperCourt Athletic Floor Care Microfiber Scrubbing Pads.
       3. Bona SuperCourt Athletic Floor Care Microfiber Dry Dusting Pads.
       4. Bona SuperCourt Athletic Floor Care Microfiber Wet Cleaning Pads.
       5. Bona SuperCourt Dispensing Unit.
    2. Sport Cleaner Concentrate:

\*\* NOTE TO SPECIFIER \*\* Professional strength, non-toxic, waterborne hardwood floor cleaner concentrate, Formulated for unwaxed, polyurethane finished wood floors. This environmentally responsible cleaner leaves no residue and will not dull the floor's finish.

* + - 1. Product: Bona Pro Series Hardwood Cleaner Concentrate as manufactured by Bona US.
         1. Ingredients: Water, Alkoxylated Alcohols, PPG-2 Methyl Ether, Butoxpropanol, Colorants, Methylisothiazolinone, Benzisothiazolinone, Citric Acid.
         2. Color: Dark Blue (wet).
         3. pH: 6.0-8.0.
         4. Solids: Less than 1 percent.
         5. Density: 6.0-8.0 lbs per gal (1.0 s.g.).
         6. VOC: Less than 1 percent.
         7. Odor: Non-Offending.
         8. Certification: GREENGUARD GOLD for indoor air quality.
         9. LEED: Complies with USGBC LEED low-VOC requirements.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. FLOOR CARE AND MAINTENANCE PRODUCTS

\*\* NOTE TO SPECIFIER \*\* Bona Hard-Surface Floor Cleaner is specifically designed to clean and protect an array of hard-surface floors. The professional grade formula provides an effective, residue-free solution for thoroughly cleaning and maintaining the floor's shine. Safe for VCT, LVT, linoleum, laminate, marble concrete, terrazzo, stone and tile.

* + 1. Hard Surface Floor Cleaner:
       1. Product: Bona Commercial System Hard-Surface Floor Cleaner Concentrate.
          1. Ingredients: Water, Alkoxylated Alcohols, PPG-2 Methyl Ether, Butoxpropanol, Colorants, Methylisothiazolinone, Benzisothiazolinone, Citric Acid.
          2. Color: Clear.
          3. pH: 6.0-8.0.
          4. Solids: Less than 1 percent.
          5. Density: 8.44 lbs per gal (1.011 s.g.).
          6. VOC: Less than 1 percent.
          7. Odor: Non-Offending. No fragrance added.
          8. Stability: One-year shelf life in an unopened container.
          9. Drying Time: 15 to 20 minutes.

\*\* NOTE TO SPECIFIER \*\* Bona Hard-Surface Floor Cleaner is specifically designed to clean and protect an array of hard-surface floors. The professional grade formula provides an effective, residue-free solution for thoroughly cleaning and maintaining the floor's shine. Safe for VCT, LVT, linoleum, laminate, marble concrete, terrazzo, stone and tile.

* + - 1. Product: Bona Commercial System Hard-Surface Floor Cleaner.
         1. Ingredients: Water, Alkoxylated Alcohols, PPG-2 Methyl Ether, Butoxpropanol, Colorants, Methylisothiazolinone, Benzisothiazolinone, Citric Acid.
         2. Color: Clear.
         3. pH: 6.0 to 8.0.
         4. Solids: Less than 1 percent.
         5. Density: 8.33 lbs per gal (0.998 s.g.)
         6. VOC: Less than 1 percent.
         7. Odor: Non-Offending. No fragrance added.
         8. Stability: One-year shelf life in an unopened container.
         9. Drying Time: 15 to 20 minutes.
    1. VCT Floor Stripper:

\*\* NOTE TO SPECIFIER \*\* A very low odor, low toxicity, non-corrosive, non-butyl floor seal and finish remover. Specially designed to remove Zinc free floor finishes as well as conventional floor finishes. This fast-acting floor finish remover dissolves multiple coats of finish without harsh alkalis, butyl Cellosolve, or strong ammonia odors. No neutralizing needed. Controlled foam and free-rinsing characteristics assure that no residue is left behind to interfere with subsequent finish applications.

* + - 1. Product: Bona Commercial System Multi-Surface Prep and Degreaser.
         1. Ingredients: Water, Ethylene Glycol Phenyl Ether, Monoethanolamine, Sodium Octanesulfonate, and Potassium Citrate.
         2. Color: Clear.
         3. pH: 11 to 12.
         4. Ammonia Content: None.
         5. Phosphate Content: None.
         6. Density: 8.54 lbs per gal (1.023 s.g.)
         7. VOC: Less than 6 percent by weight.
         8. Odor: Non-Offending. No fragrance added.
         9. Stability: 2-year shelf life in an unopened container.
         10. Packaging: 2.5 gallon bottle.
         11. Recommended Dilution: 1:4.
         12. Emulsification: Excellent.
         13. Freeze/Thaw Stable: Keep from freezing.
         14. Drying Time: 15 to 20 minutes.
    1. Resilient Floor Stripper: Low pH.

\*\* NOTE TO SPECIFIER \*\* An environmentally preferable low-odor neutral pH stripper perfect for use in places where a high pH stripper cannot be used. Contains no ammonia, butyl, caustic or other harsh materials. This product is also safe for the environment, and contains no VOC levels that exceed established regulatory limits. Ideal for stripping any synthetic flooring such as linoleum, rubber or anywhere a high pH stripper will damage the substrate.

* + - 1. Product: Bona Commercial System Resilient Floor Stripper.
         1. Color: Lime green.
         2. pH: 8 to 9.
         3. Ammonia Content: None.
         4. Phosphate Content: None.
         5. Density: 8.83 lbs per gal (1.058 s.g.).
         6. VOC: Less than 6 percent by weight.
         7. Odor: Non-Offending. No fragrance added.
         8. Stability: 2-year shelf life in an unopened container.
         9. Recommended Dilution: 1:2 to 1:6.
         10. Emulsification: Excellent.
         11. Freeze/Thaw Stable: Keep from freezing.
         12. Drying Time: 15 to 20 minutes.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. WATERBORNE FlNlSHES

\*\* NOTE TO SPECIFIER \*\* Resilient Floor Finish, a new and innovative product, specifically formulated for the treatment of resilient floors, offering a long lasting and extremely durable coating. It serves as a long-term surface protection for heavy traffic in in schools, industrial and commercial areas, restoring appearance and simplifying routine maintenance. A waterborne, clear, non-yellowing formula. For VCT, linoleum, PVC, LVT and rubber floors. Compatible with Bona Commercial System™ Color Chips.

* + 1. Commercial Waterborne Resilient Floor Finish:
       1. Product: Bona Commercial System Resilient Floor Finish Satin.
          1. Ingredients: Water, polymeric resin, 3-methoxybutanol, dipropylene glycol methyl ether, amorphous silica.
          2. Color: White.
          3. Clarity: Clear, non-yellowing.
          4. Solids : 40 percent.
          5. Viscosity 150 cp.
          6. Density: 0.038 lbs per cu in (1.05 grams per cu cm).
          7. US Regulatory VOC: 0.83 lbs per al (100 g per L).
          8. Gloss Level at 60 degrees F (15.5 degrees C): 20 percent.
          9. Odor: Non-offensive.
          10. Stability: One-year shelf life in unopened container.
          11. Leveling: Excellent.
          12. Drying Time: 2 to 3 hours.
          13. Coverage: 450 to 550 sq ft (41.8 to 51 sq m) per 1.3 gal (5 liters).
          14. Percent Cured After 24 Hours: 75 percent.
          15. Maximum Cure: 5 to 7 days; 75 percent cured after 1 day, 90 percent after 3 days.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. WATERBORNE SEALERS
     1. Sealers:

\*\* NOTE TO SPECIFIER \*\* Bona SuperSport Seal is a unique product specifically designed and developed for use on wood sport floors. Bona SuperSport Seal's quick drying, non-ambering formula reduces grain raise and prepares the floor for a protective top coat of SuperSport Finish.

* + - 1. Product: Bona SuperSport Seal as manufactured by Bona US.
         1. Ingredients: Water, acrylic resin, Dipropylene Glycol Monomethyl Ether, defoamers.
         2. Color: Milky, off white (wet).
         3. Clarity: Clear when dry.
         4. pH: 7.8.
         5. Solids: 35 percent.
         6. Density: 8.66 lbs./gallon (1.04 S.G.).
         7. US Regulatory VOC: 100 g/L.
         8. Gloss Level: N/A.
         9. Odor: Non-offending.

\*\* NOTE TO SPECIFIER \*\* Bona SuperSport DTS is a specially formulated waterborne sanding sealer for use with all Bona waterborne finishes. Bona SuperSport DTS seals the wood; develops a deep natural tone, vibrant look; abrades easily; and prevents the finish from penetrating into the wood surface.

* + - 1. Product: Bona SuperSport DTS as manufactured by Bona US.
         1. Ingredients: Water, polymeric resin, silica derivate, diethylene glycol monoethyl ether, propylene glycol.
         2. Color: Milky white (wet).
         3. Clarity: Clear when dry.
         4. pH: 7.5 to 7.9.
         5. Solids: 31 to 32 percent.
         6. Density: 8.66 lbs./gallon (1.04 S.G.).
         7. US Regulatory VOC: 250 g/L.
         8. Odor: Non-offending.
  1. OIL-MODIFIED SEALERS
     1. Sealers:

\*\* NOTE TO SPECIFIER \*\* Bona Sport Seal is an oil-modified sealer for use over newly sanded sport and all-purpose floors. Formulated for use with Bona Sport Poly and Bona All Court Poly. Seals the wood, providing a build layer and prevents the finish from penetrating. Bona Sport Seal meets the federal and most state clean air quality standards.

* + - 1. Product: Bona Sport Seal as manufactured by Bona US.
         1. Ingredients: Oil-modified polyurethane resin, mineral spirits (solvent), driers, defoamers.
         2. Color: Light amber.
         3. Clarity: Clear when dry.
         4. Solids: 43 percent.
         5. Density: 7.3 lbs./gallon (.88 S.G.).
         6. US Regulatory VOC: 500 g/L.
         7. Viscosity: (#4 Ford cup at 25 degrees C) approx. 17 seconds.
         8. Odor: Mineral spirits.
         9. Flash Point: 110 degrees F (42 degree C).
         10. Stability: 2-year shelf life in unopened container.

\*\* NOTE TO SPECIFIER \*\* Bona Sport Seal 350 is a low-VOC, oil-modified sealer for use over newly sanded sport and all-purpose hardwood floors. Formulated for use with Bona Sport Poly 350. Seals the wood, providing a build layer, and prevents the finish from penetrating. Bona Sport Seal 350 is specially formulated to meet all federal and state clean air quality.

* + - 1. Product: Bona Sport Seal 350 as manufactured by Bona US.
         1. Ingredients: Oil-modified polyurethane resin, mineral spirits (solvent), polysiloxane, driers, defoamers.
         2. Color: Light amber.
         3. Clarity: Clear when dry.
         4. Solids: 51 to 54 percent.
         5. Viscosity: (#4 Ford cup at 25 degrees C) approx. 22 to 26 seconds.
         6. Density: 7.7 lbs./gallon (.92 S.G.).
         7. US Regulatory VOC: 350 g/L.
         8. Odor: Mineral spirits.
         9. Flash Point: Greater than 104 degrees F (PMCC).
         10. Stability: 2-year shelf life in unopened container.

\*\* NOTE TO SPECIFIER \*\* Bona DriFast Sport Seal is a quick-drying (1.5 - 2 hours), oil-modified sealer designed to penetrate and seal bare wood. Compatible with all Bona Sport paints and oil-modified and waterborne sport finishes.

* + - 1. Product: Bona DriFast Sport Seal as manufactured by Bona US.
         1. Ingredients: Mineral spirits (solvent), urethane resins, silica, driers.
         2. Color: Wet - amber; Dry - light amber.
         3. Solids: 37 percent.
         4. Density: 7.21 lbs./gallon (.866 S.G.).
         5. US Regulatory VOC: 550 g/L.
         6. Odor: Mineral spirits.
         7. Flash Point: 103 degrees F (39 degrees C).
         8. Clarity: Clear.
         9. Stability: 2-year shelf life in unopened container.
  1. PAINTS
     1. Court Sport Floor Paint:

\*\* NOTE TO SPECIFIER \*\* CourtLines Sport Floor Paint is a high-solids, fast-drying, solvent-based sport floor paint, manufactured specifically for use with both waterborne and oil-modified sport floor sealers and finishes. Available in fifteen vibrant primary colors, all CourtLines paints are blendable to achieve an endless array of custom colors.

* + - 1. Product: Bona CourtLines Sport Floor Paint as manufactured by Bona US.
         1. Ingredients: Alkyd resins, odorless mineral spirits, pigments, driers, titanium dioxide.
         2. Base Colors: Red, yellow, green, lt. blue, dark blue, orange, brown, black, white, gold, maroon, purple, lt. beige, gray, NC blue. Refer to drawings and finish schedule.
         3. Odor: Non-offending low odor.
         4. Solids: Colors - 47-51 percent; White - 66 percent.
         5. Flash Point: 100 degrees F (TCC).
         6. Density: Colors - 7.6 to 7.9 lbs./gallon; White - 11.1 lbs./gallon.
         7. US Regulatory VOC: Does not exceed 490 g/L.
         8. Stability: 2-year shelf life in unopened container

\*\* NOTE TO SPECIFIER \*\* Delete color not required.

* + - * 1. Color: Light Blue.
        2. Color: Red.
        3. Color: Green.
        4. Color: White.
        5. Color: Black.
        6. Color: Orange.
        7. Color: Dark Blue.
        8. Color: Yellow.
        9. Color: Brown.
        10. Color: Purple.
        11. Color: Gold.
        12. Color: Maroon.
        13. Color: Grey.
        14. Color: Light Beige.
        15. Color: NC Blue.

\*\* NOTE TO SPECIFIER \*\* Bona SuperSport Paint is a fast drying, waterborne gameline paint manufactured specifically for use with both waterborne and oil-modified sport floor sealers and finishes; Specifically formulated for sport gamelines, lettering and logos; Use with Bona waterborne or oil-modified finishes; 17 vibrant colors including white, blendable for an unlimited possibility of custom colors; Fast drying with 3 - 4 hour recoat of finish; No abrasion needed for adhesion of finish; VOC compliant; Very low odor; Excellent flow and leveling; Excellent adhesion; Available in gallons; GREENGUARD Gold certified for indoor air quality.

* + - 1. Product: Bona SuperSport Paint.
         1. Ingredients: Polymer, Water, Dipropylene glycol n butyl ether, Dipropylene glycol monoethyl ether, and Pigments.
         2. Odor: Non-offending low odor.
         3. Solids: Colors: 32 - 46 percent.
         4. Density: Colors: 8.8-10.2 lbs./gallon; White: 9.9 lbs./gallon.
         5. US Regulatory VOC: Does not exceed 150 g/L.
         6. Stability: 18 months shelf life in unopened container.
         7. Drying Time: 3-4 hours before coating with waterborne finish, 12-16 hours for oil-modified. A second coat of paint can be applied within 30-90 minutes.

\*\* NOTE TO SPECIFIER \*\* Delete color not required.

* + - * 1. Color: Light Beige.
        2. Color: Black.
        3. Color: Dark Blue.
        4. Color: League Blue.
        5. Color: NC Blue.
        6. Color: Brown.
        7. Color: Gold.
        8. Color: Gray.
        9. Color: Green.
        10. Color: Light Green.
        11. Color: Maroon.
        12. Color: Orange.
        13. Color: Purple.
        14. Color: Red.
        15. Color: White.
        16. Color: Yellow.
        17. Color: Light Yellow.
  1. FLOORING RECOAT SYSTEMS
     1. Resilient Floor Renovation:

\*\* NOTE TO SPECIFIER \*\* Bona Commercial System™ Resilient Base Color is a uniquely designed product for renovation of resilient floors. Bona Commercial System Base Color ensure a quick application process with accelerated drying properties and heavy pigmentation for single-coat coverage. Available in seven popular colors. VCT, linoleum, PVC, LVT and rubber floors. Compatible with Bona Commercial System™ Color Chips.

* + - 1. Product: Bona Commercial System Resilient Base Color.
         1. Ingredients: Water, polymeric resin, 3-metnoxybutanol, and pigments.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Color: Ocean.
        2. Color: Steel Gray.
        3. Color: Twilight.
        4. Color: Cream.
        5. Color: Warm Pewter.
        6. Color: Turkish Blue.
        7. Color: Fog.
        8. Density: 0.038 lbs per cu in (1.04 grams per cu cm).
        9. Viscosity: 150 cp.
        10. Solids: 40 percent.
        11. US Regulatory VOC: 1.67 lbs per gal (200 gram per L).
        12. Gloss Level 60 degrees F (15.5 degrees C): 20 percent.
        13. Odor: Non-offensive.
        14. Stability: One-year shelf life in unopened container.
        15. Leveling: Excellent.
        16. Drying Time: 2 to 3 hours.
        17. Coverage: 450 to 550 square feet per 5 L (8.36 to 10.22 sq m per L).
        18. Percent Cured After 24 Hours: 75 percent cured after 1 day.
        19. Maximum Cure: 5 to 7 days, (75 percent cured after 1 day, 90 percent after 3 days).

\*\* NOTE TO SPECIFIER \*\* Achieve unique and beautiful design elements when renovating your resilient floors with Bona Commercial System™ Color Chips. They can be added in various concentrations depending on your desired look. Offered in 10 base colors and and 5 premium color options to provide and infinite number of custom color combinations. Use together with Bona Commercial System Resilient Base Colors and Bona Commercial System Resilient Floor Finish. VCT, linoleum, PVC, LVT and rubber floors

* + - 1. Product: Bona Commercial System Color Chips.
         1. Ingredients: Barium sulfate, calcium carbonate, proprietary resins, titanium dioxide, pigments.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Color: Black.
        2. Color: White.
        3. Color: Neutral Gray.
        4. Color: Medium Gray.
        5. Color: Ivory.
        6. Color: Beige.
        7. Color: True Blue.
        8. Color: Heaven.
        9. Color: Moss.
        10. Color: Lipstick Red.
        11. Color: Schist.
        12. Color: Stone.
        13. Color: Kona Beige.
        14. Color: Rose.
        15. Color: Maui Blue.
        16. Color: Sliver Mica.
        17. Dry Film Thickness Gauge: 5 mils.
        18. Solids: 100 percent
        19. Shape: Random
        20. Size: 1/4 inch (6 mm).
        21. Gloss Level at 60 degrees F (15.5 degrees C): Less than 15 units.
        22. Odor: Odorless.
        23. Materialism: Nonmetameric.
        24. Coverage: 50 to 200 sq ft per lb (10.24 to 40.96 sq m per kg) depending on desired coverage.
  1. RESILIENT FLOOR RENOVATION

\*\* NOTE TO SPECIFIER \*\* Use together with Bona Commerical System Resilient Base Colors and Bona Commercial System Resilient Floor Finish. VCT, linoleum, PVC, LVT, and rubber floors. At schools, healthcare facilities, retail spaces and commercial buildings.  
Delete options not required.

* + 1. Antislip Additive:
       1. Product: Bona Commercial System Antislip Additive. For treating Bona Commercial System Resilient Floor Finish. For added slip resistance, a second coat can be applied. Provides additional slip protection on wet or dry surfaces. No additional time applied during coating process.
       2. Technical Data:
          1. Ingredients: Polypropylene granules.
          2. Color: White in packaging, clear when added to finish.
          3. Solids: 100 percent.
          4. Shape: Random.
          5. Size: 50 mesh.
          6. Materialism: Nonmetameric.
          7. Packaging: 1 lb (0.45 kg) in three, 5.3 oz (0.15 kg) bags.
       3. Application Characteristics:
          1. Application Tools: Stir stick or paddle mixer.
          2. Coverage: Each 5.3 oz (0.15 kg) package treats 1.3 gal (5 L) of Resilient Floor Finish.

\*\* NOTE TO SPECIFIER \*\* For use on VCT, LVT and LVP repairs prior to Bona Resilient Renovation. Delete options not required.

* + 1. Resilient Floor Repair:
       1. Product: Bona Commercial System Resilient Floor Repair. A two-component polyurethane filler and adhesive, for repairing cracks and small voids during resilient renovation process in VCT, LVT and other resilient flooring material.
          1. Shelf Life: 18 months.
          2. Sag Resistance: Excellent.
          3. Curing Speed and Bond Strength: Excellent.
          4. Chemical Resistance: Excellent.
          5. Easy to sand.
       2. Technical Data:
          1. Ingredients: Polyol mixture combined with isocyanate prepolymer.
          2. Color: Light Grey.
          3. Density: 10.83 lbs/gal (1.3 kg/L) - Part A; 10.38 lbs/gal (1.3 kg/L) - Part B.
          4. US Regulatory VOC: 0 g/L.
          5. Odor: Characteristic.
          6. Stability: 18 months from date of production in unopened container.
          7. Packaging: 12 x 8.45 oz. (250 ml).
       3. Application Characteristics:
          1. Application Tools: Standard 10 oz (0.28 kg) Caulking gun.
          2. Dry Time: 30 minutes.
          3. Open Time: 3 minutes.

1. EXECUTION
   1. MANUFACTURER'S INSTRUCTIONS
      1. Comply with the instructions and recommendations of the floor finish system manufacturer.
      2. For new installation of floors, use only in structures with humidity and temperature controls. Do not use over channel and clip floor systems in environments not controlled for temperature and humidity.
   2. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   3. PREPARATION
      1. Protection: Protect adjacent finish surface to prevent damage during sanding and sport floor system application.
   4. APPLICATION
      1. Specific application methods vary with product. Consult manufacturer and comply fully with manufacturer's application recommendations.
         1. Before using these products, read and understand all directions and the Material Safety Data Sheets (MSDS).
         2. Shake well before using.
         3. Do not thin products.
         4. Keep from freezing.
      2. Finish System: As scheduled or indicated on the drawings.

\*\* NOTE TO SPECIFIER \*\* Edit system to comply with Bona waterborne sealer and finish system selected.

* + - 1. 4-coat system, 1 to 2 coats of a sport sealer, court lines paint (where scheduled or indicated) and 2 to 3 coats of a sport court finish.
      2. For Anti-Slip Additive, mix one package, 5.3 oz(150 grams) to one 1.3 gal (5 L) bucket of finish.
    1. Floor Repair:
       1. Before using these products, read and understand all directions and the Material Safety Data Sheets (MSDS).
       2. Use with a standard 10 oz. caulking applicator gun, and attach the supplied mixer tips.
       3. Material will begin to set up in 3-5 minutes and ready to sand in 30 minutes.
       4. Keep from freezing.
  1. PROTECTION
     1. After application, protect floor finish from damage during subsequent work.
     2. Do not allow foot traffic until floor is sufficiently dried and cured.

END OF SECTION