

DIVISION 9 - Finishes
Section 09600 - Flooring
Section 09620 – Specialty Flooring
Section 09650 – Resilient Flooring
Section 09670 – Fluid Applied Flooring

Part 1 – General

1.1 SECTION INCLUDES

- A. Seamless Low VOC Decorative Elastomeric Flooring for interior concrete surfaces.

1.2 RELATED SECTIONS

Specifier Notes: Edit the following list as required for the project. List other sections with work directly related to the floor coating.

- A. Section 09600 – Flooring
- B. Section 09620 – Specialty Flooring
- C. Section 09650 – Resilient Flooring
- D. Section 09670 – Fluid Applied Flooring

1.3 REFERENCES

Specifier Notes: List standards referenced in the section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. DIN 51130 Shoe Shod Ramp Test for determining the slip resistance of surfaces.
- B. DD ENV 13419 Determination of the Emission of Volatile Organic Compounds, Emission Test Chamber Method. and ISO 1600-6.
- C. EN 433 Determination of Residual Indentation after Static Loading.
- D. BS EN 425 Resistance to Chair Castors.
- E. ISO 6272-1 Rapid Deformation (Impact Resistance) Test.
- F. ISO 868, ASTM D 2240 Shore Hardness Test of Rubber and Plastics.
- G. BS EN 13501-1 2007 Fire Classification of Construction Products and Building Elements.

1.4 SUBMITTALS

- A. Comply with Section 01 33 00 - Submittal Procedures.
- B. Product Data: Submit three (3) copies of Sika ComfortFloor system sheet.

- C. Concrete Guidelines: Submit three (3) copies of Recommendations for correct preparation, finishing and testing of concrete subfloor surfaces to receive ComfortFloor system.
- D. Samples: Submit one (1) sample of Sika ComfortFloor system, if requested by the architect.
- E. Maintenance Instructions: Submit manufacturer's maintenance instructions.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualification
 - 1. Acceptable Manufacturer: Sika Corporation, 201 Polito Drive, Lyndhurst, NJ 07071
 - 2. Manufacturer shall be ISO 9001 and ISO 14001 Certified, and provide copy of Certification document upon request.
 - 3. No request for substitution shall be considered that would change the generic type or thickness (ie: seamless, Low VOC, Elastomeric, Flooring system).
 - 4. Only on approval of Architect or Engineer shall request for substitution be considered. Such request will only be considered if submitted 10 days prior to bid date. Requests shall include the respective manufacturer's technical literature for each product giving the name, generic type, descriptive information, recommended dry film thickness (DFT), Material Safety Data Sheet (MSDS), and certified test reports showing results to equal performance criteria of products specified herein.
- B. Applicator Qualifications
 - 1. Pre-Qualification: Each bidder for this project shall be pre-qualified and approved in writing by the material manufacturer at the time of bid submittal.
 - 2. Applicator Experience: Contractor shall submit a list of three projects (with contact information) of similar size, scope and complexity. Contractor shall submit Letter attesting that Floor Contractor and Field Personnel have been properly trained to perform work per specifications and contract.

Specifier Notes: Describe requirements for a meeting to coordinate the application of the floor coating and to sequence related work.

- C. Pre-application Meeting: Convene a pre-application meeting [2] [Two] weeks before the start of fluid-applied flooring application. Require attendance of parties directly affecting work of this section, including Contractor, Architect, applicator, and manufacturer's representative. Review required jobsite conditions, safety procedures and requirements, crew makeup and

responsibilities, surface preparation, priming, application, curing, protection, and coordination with other work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name, manufacturer, batch or lot number, and date of manufacture. Do not store materials in direct sunlight.
- B. Storage:
 - 1. Store between 55-75°F (10°-25°C), do not store in direct sunlight or high heat conditions.
 - 2. Keep containers sealed until ready for use.
- C. Handling: Protect materials during handling and application to prevent damage or contamination.
- D. Condition materials for use to 60°-70°F (15-21°C) for 24 hours prior to application.

1.7 ENVIRONMENTAL CONDITIONS

- A. Permanent heat, light and ventilation shall be installed and operating during and after installation. Environmental temperatures must average a minimum of 65 degrees Fahrenheit for one full week preceding, throughout, and 72 hours following application. Do not apply materials if relative humidity is above 85% (percent) or within 5° (3°) of dew point at time of application.

1.8 WARRANTY

- A. Provide a warranty covering materials and workmanship for a period of one year after date of installation.

Part 2 - Products

2.1 MATERIALS

- A. Adhesive: Sikafloor Comfort Adhesive Two component solvent free polyurethane adhesive applied with notched trowel.
- B. Prefabricated Shock Pad: Sikafloor Comfort Regupol 4580 rolled into the wet adhesive. Roll with a carpet roller.
- C. Pore Filler: Sikafloor Comfort Pore Filler Two component solvent free polyurethane applied

at 6 mils wft.

- D. Base Coat: Sikafloor 300N: Two component solvent free aliphatic polyurethane applied at 80 mils wft.
- E. Flake Broadcast: **Optional** random light broadcast of decorative colored flakes.
- F. Sealer: Sikafloor 304W Two component waterborne, low solvent, matte seal coat applied at 3 mils wft.

Typical Data Finished ComfortFloor System

1.DIN 51130	R10
2.DD ENV 13419 and ISO 1600-6	Passed
3.EN 433	Very Good
4.BS EN 425	Good
5.ISO 6272-1	Good
6.ISO 868, ASTM D 2240	81
7.BS EN 13501-1 2007	Cfl S1

Above typical values based on 7 days cure @ 75 °F

Part 3 – Execution

3.1 EXAMINATION

- A. Examine surfaces to receive resinous flooring. Notify General Contractor if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected (including fins, bugholes, curing compounds, cracks, skimming materials, slab exceeds 1/8" in 10', contaminants from other trades, etc.)
- B. Conduct Moisture Tests on the concrete slab utilizing a Tramex moisture meter. Do not proceed until the readings are 4% or less. Consult the manufacturer if readings exceed 4%.
- C. Do not apply to asphaltic or bitumen membranes, glazed or vitrified brick and tile, soft wood, aluminum, copper or fiberglass reinforced polyester/vinyl ester composites.

3.2 SURFACE PREPARATION

- A. Prepare concrete substrate in accordance with International Concrete Repair Institute (ICRI) Technical Guideline No. 03732 to CSP 3. Prepared surface shall be free of laitance and other bond-inhibiting contaminants.

3.3 CONTROL, JOINTS, CRACKS

- A. Provide repair and treatment of control joints and surface cracks utilizing manufacturer's standard materials and installation details.

3.4 APPLICATION

- A. Repair concrete substrate as required using materials approved by the Manufacturer.
- B. Do not add thinners to materials. No thinners shall be approved or allowed.
- C. For coverage rates, consult data sheet for the ComfortFloor components technical data sheets.
- D. Finish surface to be smooth, with uniform texture, free of surface defects, and without porous areas.
- E. Follow Manufacturer's recommendations on terminations and connections to walls, drains, doorways, columns and floor-to-floor transitions.

3.5 Clean Up

- A. Remove masking, draping, and other protection from adjacent surfaces.
- B. Remove remaining materials and debris from job site and dispose of them in accordance with local rules and regulations. Leave area in clean condition free of debris.

3.6 PROTECTION

- A. Erect suitable barriers and post legible signs at points of entry to prevent traffic and trades from entering the work area during application and cure period of the floor. Protection of finished floor from damage by subsequent trades shall be the responsibility of the General Contractor. No other trades are to be allowed on floor until it is accepted in writing by owner or owner's authorized agent.

END OF SECTION

See legal disclaimer and pertinent information following

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s).

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Material Safety Data Sheet that are available at www.sikaconstruction.com or 1-800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use.

Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Marion: FM 69715, Kansas City: FM 69107, Santa Fe Springs: FM 69408

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