### PRODUCT INFORMATION
- TYPE OF PRODUCT: Linoleum Floor Covering
- COMPANY NAME: Forbo
- PRODUCT/COLLECTION NAME: Marmoleum Fresco
- DESCRIPTION: Marmoleum the natural choice for furniture and wall applications. With great features such as durability, bacteria resistance, ease of use and large color selection, Marmoleum is suited for numerous applications from furniture to wall panels.

### MATERIAL FEEDSTOCK
- MATERIAL CONTENT: Rosen, Wood Flour, Cork Flour, Linseed oil, Limestone, Jute, Pigment
  - Rosin – Key agent, tapped from pine trees, without effecting its growth – gives strength and flexibility
  - Wood Flour – bind pigments and ensure colorfastness, gives smooth surface, chose to use from controlled European forest and for every tree felled it is replaced.
  - Cork Flour – grinding cork oak – grown around the Mediterranean, bark peeled off every seven years without effecting tree growth.
  - Linseed oil – optimizes the oxidation process in the production.
  - Limestone – found all over the world.
  - Jute – yarn for the webbing is spun from jute grown in India and Bangladesh.
  - Pigment – do not contain heavy metals such as Lead and Cadmium.

- RECYCLED CONTENT %: Not Specified
- RAPIDLY RENEWABLE CONTENT %: Natural accruing materials.
- HARMFUL ADDITIVES: None, All natural
- HARMFUL EMISSIONS: None
- EMISSION STRENGTH OVER TIME: None
- TREATMENTS: Not Specified

### MANUFACTURING
- MANUFACTURING PROCESS: Made of natural materials consisting of linseed oil, wood flour, rosin binders, dry pigments, mixed and calendared onto natural jute backing.
- HARMFUL EMISSIONS: None
- LOCATION OF MANUF. PLANT: P.A
- TESTS/CODES: Meets ADA recommendation
  - ASTM E-648
  - NFPA 253
  - LEED-CI Sustainable Flooring
  - Earth Advantage

### INSTALLATION
- INSTALLATION PROCEDURE:
  - MARMOLEUM® and Walton may be installed on approved substrates on all grade levels.
  - The permanent HVAC must be operational and set at a minimum of 68 °F (20 °C) at least one week prior to installation. Acclimate material to jobsite conditions for a minimum of 48 hrs. prior to installation.
  - Always conduct moisture tests on all concrete slabs regardless of age or grade level.
  - Conduct calcium chloride tests in accordance with ASTM F1869. Concrete moisture vapor emissions must not exceed 5.0 lbs. per 1000 sq. ft. in 24 hrs. when using Forbo L 910 adhesive, or 3.0 lbs. per 1,000 sq. ft. when using Forbo 414 adhesive (Canada only). When moisture vapor emissions exceed these requirements, please request information on Forbo Moisture Limitor.
  - Measure the relative humidity in the center of the concrete slab in accordance with ASTM F2170. Relative humidity must not exceed 75%.
  - A pH test should be conducted and must not exceed a pH of 10.

- INSTALLATION ADHESIVES: Not Specified
- UNIT COST: $2.55-$3.55/sq.ft.
- END OF SERVICE LIFE: Not Specified
- MISC. PROPERTIES: QUALITIES/PROPERTIES OF: High Durability
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<th>PRODUCT</th>
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<tr>
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<td>LEED SMART&lt;br&gt;Platinum Level&lt;br&gt;Public Health &amp; Environment&lt;br&gt;Energy Efficient&lt;br&gt;Biobase/Recycled&lt;br&gt;Innovation in Manufacturing&lt;br&gt;Company-Based Manufacturing&lt;br&gt;Sustainable reuse</td>
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<td>COMPANY PROFILE</td>
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<td>CONTACT</td>
<td>Forbo Linoleum&lt;br&gt;P.O Box 667&lt;br&gt;2 Maplewood Dr&lt;br&gt;Humboldt Industrial Park&lt;br&gt;Hazleton, PA 18201</td>
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