

# Styrofan® 4104

Chemical Nature

Aqueous styrene-butadiene copolymer dispersion for use in concrete floor primers and for the modification of cementitious mixtures.

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Typical PropertiesSolids content<br/>pH%<br/>6.0-8.0Viscosity at 23 °Ccps20-400

(Brookfield RV, Spindle #2, at 20rpm)

Other properties of the dispersion

Density at 23 °C lb/gal. ca. 8.5

Freeze/thaw stability not resistant

Properties of the film

Appearance Transparent Surface not tacky Tensile Strength psi 1600 500 Elongation at break °C Glass transition temperature ca. 10 Tg (DSC) Water Absorption % ca. 3 (after 24hr immersion in water)

### **Application**

**Features** 

Styrofan 4104 may be used in penetrating primer coats over "green" concrete slabs (e.g., flooring) to help control moisture vapor transmission from the underlying cementitious substrate. Styrofan 4104 has good calcium ion stability, is cement stable, and thus, may also be used within the mortar mix itself to improve properties. In ASTM C1439 mortar at 0.15 p/c, Styrofan® 4104 imparted superior compressive strength, rapid strength development, and low mortar cube water absorption. Styrofan 4104 is ammonia and APEO free.

**Processing** 

Customers must conduct their own trials when developing and processing products based on Styrofan 4104. The compatibility and miscibility with other emulsions or latex polymers and other formulating materials are affected by a variety of factors which are too numerous for BASF to take into account in our own trials. This includes the viscosity stability of the formulated product in storage.

## Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Styrofan 4104.

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<sup>\*</sup> The above values should not be taken as specification

## **Storage**

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

#### **Important**

The descriptions, designs, and data contained herein are presented for your guidance only. Because there are many factors under your control which may affect processing or application/use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand and agree that the descriptions, designs, and data furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk.

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BASF Corporation Dispersions and Resins 11501 Steele Creek Road Charlotte, North Carolina 28273 Phone: (800) 251 – 0612

Email: CustCare-Charlotte@basf.com Email: edtech-info@basf.com www.basf.us/formulation-additives

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