



## Dear patrons and readers,

PerkinElmer (India) Pvt. Ltd. wishes you a very prosperous new year. We also thank for the support extended to us with your appreciations, queries, and

suggestions to make this news letter a successful medium to reach out to you with the contents and updates happening at the PerkinElmer in the field of sciences for the human health and environmental health.

Your appreciations made us to bring the FRESH newsletter with 25th volume on 2nd anniversary of this initiative. The un interrupted monthly newsletter is reaching your mail box with the help of our applications teams all over the globe, the users and customers, creative and marketing teams.

In this edition we have incorporated the new methodologies for the analysis of specialty paints ,coatings and polymers using PerkinElmer instrumentation and applications. If you have your own work carried on PerkinElmer system and documented with you as an article; and wish to be shared through the FRESH; you may forward to Marketing.India@perkinelmer.com.

Warm regards  
Team Marketing  
PerkinElmer (India) Pvt. Ltd.



Training calendar,  
2011



Spotlight

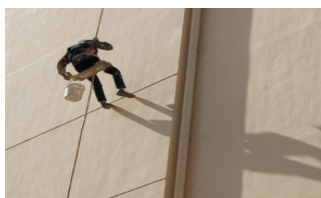


Fresh Archives



## Confirmation of the Presence of Styrene Butadiene Resin (SBR) Polymer in Drywall Primer Applications.

Over the past several years, architects and developers of condominium housing projects in western Washington have begun to utilize the Energy Code1 allowing a rated vapor barrier primer/ paint to replace the traditional poly-ethylene plastic sheeting or Kraft-backed insulation bats historically used in the construction to achieve the required water vapor perm rating of 1.0 or less. Building specifications for the interior wall finish called for the application of a vapor barrier rated primer followed by the normal decorative paint/top coat. A combination of Fourier Transform Infrared (FT-IR) Spectrometry and Thermogravimetric Analysis (TGA) was used to distinguish and identify styrene butadiene from polyvinyl acrylic resin-based interior latex primers & paints. [Click here for details.](#)



## Measurement of Total Solar Reflectance of Paint Panels

Paint manufacturers are interested in the reflectivity of their products. This characteristic involves properties in both the visible region where color is important as well as extending into the Near Infrared (NIR) region where the properties of the paint with respect to solar radiation are important. In particular, the most important aspect is the degree of reflectivity. The paint may be designed to retain heat, in which case a low total solar reflectance (TSR) may be required. Alternatively, a high total solar reflectance may be desirable if the purpose of the paint is to prevent the treated surface from heating up. [Click here for details.](#)



## Determination of Monomers in Polymers by Multiple Headspace Extraction – GC/MS

Polymer production and quality control (QC) requires a variety of analytical testing – one common QC test is the analysis of residual monomers in the final polymer material. This analysis is well suited for headspace sampling because headspace eliminates the sample preparation. The sample is analyzed directly with no need to dissolve the polymer. [Click here for details.](#)