

## Whispermat WM2-24-2.00A-BU



**Whispermat WM2-24-2.00A-BU** is a special barrier absorption composite which combines a urethane film for liquid resistance, a two inch thick polyurethane foam for sound absorption, a loaded flexible 1.6lb/ft<sup>2</sup> barrier on a ¼" thick polyurethane foam de-coupler for sound transmission loss.

**Whispermat WM2-24-2.00A-BU** is a noise control material specifically designed to achieve maximum attenuation over a broad frequency range. Whispermat combines dense, limp, flexible, non-lead loaded barriers with Hushcloth<sup>®</sup> foams providing a total noise control system.

Designed by acoustical engineers, **Whispermat WM2-24-2.00A-BU** has been optimized to economically provide:

- High transmission loss is the barrier's ability to impede airborne noise.
- High noise reduction coefficient is the foam's ability to absorb airborne sound energy with minimum reflections. (See Hushcloth brochure for absorption data).
- Damping is the composite's ability to attenuate structure borne vibration on metals and plastics thereby reducing reradiated noise and material fatigue.

The diversity of constructions makes possible engineered solutions for most OEM and in plant applications. Whispermat is available with single and double layer septums, various barrier weights, foam thicknesses and a variety of surface treatments. Whispermat is available in rolls, sheets, die cut or fabricated to customer specifications or can be easily field cut with a knife or scissors. These composites can be adhered to the substrate with factory supplied, economical, SBR pressure sensitive adhesive or an acrylic based pressure sensitive adhesive for temperatures up to 250°F(121°C) It is recommended that a contact adhesive or mechanical fasteners be used for these heavily loaded composites in overhead applications.

## Physical Properties:

<b>Color</b>	Facing – Black Foam - Charcoal Grey Barrier – Black
<b>Density</b>	Barrier – 0.5 to 2 lb /ft <sup>2</sup> (2.5 – 9.8Kg/m <sup>2</sup> ), Foam - 2 lb/ft <sup>3</sup> (32Kg/m <sup>3</sup> )
<b>Composite Weight</b>	2.0 lb/ft <sup>2</sup> (10Kg/m <sup>2</sup> ) Flammability MVSS 302, SAE J369
<b>Thermal Conductivity</b>	0.3 - 0.38 BTU-in/ft <sup>2</sup> h°F (43 - 55 mW/m <sup>2</sup> K)per ASTM C518