

INTRODUCING COOLGUARD™

Protected Membrane Roof Insulation



Protection. Insulation. And Reflection That Exceeds ENERGYSTAR® Standards.



COOLGUARD Protected Membrane Roof (PMR) Insulation panels have an initial reflectance of 84, an aged reflectance of 65, and a typical emittance value of 0.90.

COOLGUARD PMR products are manufactured and warranted to the same high-quality standards as **LIGHTGUARD®** and **HEAVYGUARD®** PMR products.

COOLGUARD Protected Membrane Roof (PMR) Insulation panels are **ENERGYSTAR®** approved products made up of 2' x 4', tongue-and-groove, **Styrofoam®** insulation panels bonded to 3/8" modified concrete ballast. These panels provide **protection, insulation, and reflectivity** in one easy step. And they can be used in new, retro-fit and re-roof applications.

The highly reflective surface of **COOLGUARD** PMR Insulation panels will:

- Reduce roof-top temperatures and energy consumption and improve interior comfort
- Reduce the "heat island effect" and improve the environment
- Reduce roof "emissivity" – the amount of heat coming off your roof
- May even qualify you for "cool roof" rebates

Installing **COOLGUARD** PMR Insulation panels above the waterproof membrane:

- Protects the membrane from physical and environmental abuse, UV radiation, wind, and thermal shock

The **Styrofoam** insulation will:

- Reduce energy consumption
- Provide stable, long-term insulation value – guaranteed

It's Not Rocket Science.

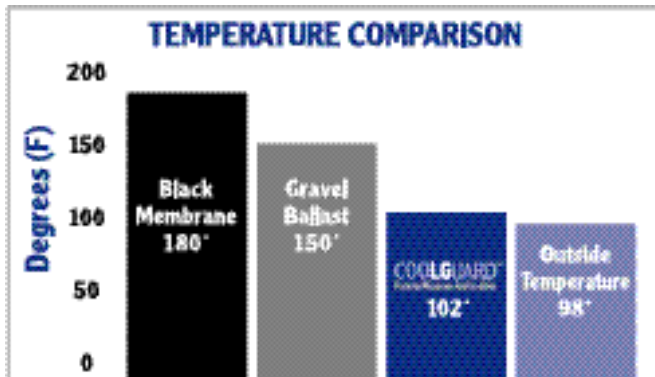
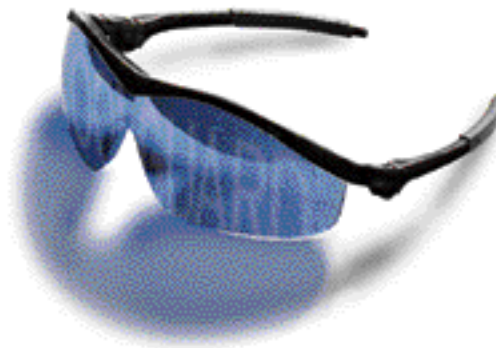


It Just Works.



COOLGUARD™

Protected Membrane Roof Insulation



Compare COOLGUARD PMR Insulation Panels to Reflective Coatings

COOLGUARD PMRI

VS.

REFLECTIVE COATINGS

- **1-Step Installation**

No Cleaning
No Priming
No Coating

- **Not Weather Sensitive**

Can install in any season
Can install in rain or shine
Coating is factory-applied and fully cured

- **Protects Waterproof Membrane**

Protects against physical abuse, UV radiation, wind and thermal shock

- **Provides Predictable, Long-Term Insulation**

Styrofoam® has an R-value of 5 per inch and is guaranteed to retain 80% of its insulation value after 15 years

- **Provides Lightweight Ballast @ 4.5 lbs. per sq. ft.**

Can also choose Heavyweight ballast @ 11 lbs. per sq. ft.

- **Recyclable and Contains No CFCs**

Each panel can be moved and reused in the case of a re-roof

- **Requires 3-Step Installation**

Clean Membrane
Prime Membrane
Coat Membrane

- **Installation is Weather Sensitive**

Cannot apply when temperature is below 32°F
Cannot apply when raining or threatening rain
Rain on uncured coating can cause partial or total run-off

- **Provides NO Protection for Waterproof Membrane**

- **Provides NO Insulation**

- **Provides NO Ballast**

- **Cannot be Reused**



3255 Symmes Road • Hamilton, OH 45015

800-544-7398 • Fax 513-870-9606

Email: sales@tclear.com • www.tclear.com