

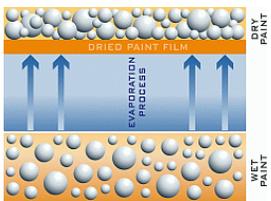


HY-TECH ceramic insulating paint additive is a fine, white powder blend of high strength ceramic "microspheres". Each single ceramic microsphere is so small that it looks to the naked eye as if it is a single grain of flour, (slightly thicker than a human hair).



The microspheres in the HY-TECH insulating ceramic additive have compressive strengths up to 60,000 psi, a softening point of about 1800° C., and they are fairly chemical resistant, with low thermal conductivity of 0.1 W / m / Deg. C.

The scientific process went one step farther and improved on the ceramic microspheres by removing all the gas inside which created a vacuum. Physics law states that nothing can move by conduction through a vacuum, since it represents an absence of matter. In effect we have a miniature thermos bottle... a microscopic hollow vacuum sphere that resists thermal conductivity and reduces the transfer of sound. When mixed into paint the painted surface dries to a tightly packed layer of the hard, hollow "microspheres", (Hy-Tech's exclusive CVM, ceramic vacuum matrix technology.) The tightly packed film reflects and dissipates heat by minimizing the path for the transfer of heat. The ceramics are able to reflect, refract and block heat radiation (loss or gain) and dissipate heat rapidly preventing heat transfer through the coating with as much as 90% of solar infrared rays and 85% of ultra violet-rays being radiated back into the atmosphere.



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Hy-Tech insulating additive is completely inert and can be mixed into ANY paint, coating or composite including interior house paint, exterior house paint, roof paint, solvent base coating, epoxy, urethane, high temperature paint, elastomeric, mastics etc. The addition of the ceramics to any material provides improved fire resistance, protection of coated surfaces from harmful UV rays, repulsion of chewing insects and increased durability of the coating due to the hard ceramic finish. Ceramic filled paint is easier to clean and lasts far longer than conventional paint pigments.

#### Additional Benefits of Hy-Tech Insulating Ceramics

- Hard ceramics provide longer lasting durability which means you paint less often.
- Exceptional stain and scrub resistance
- Ceramics are Non-Toxic & Fire Resistant
- Helps deaden sound
- Use on Interior or Exterior
- Environmentally Friendly
- Reduces heat and cooling loss!
- A hard smooth surface that resists corrosion, abrasion, mold and mildew.

#### Advantages of Hy-Tech Insulating Additive:

**Economical:** 1.) Being lightweight shipping fees are reduced. 2.) No waste, use what you need now and store the remaining ceramic additive for future painting projects. **Convenience:** The ceramic additive can be stored indefinitely so it is always on hand for when you have the time to paint. **Versatile:** Hy-Tech ceramics can be mixed into Any brand or type of paint, coating, mastic, adhesive, or cement base mixture such as stucco mix, tile grout and thin set, plaster, any product that needs improved insulating, sound deadening or increased slip resistance properties. 3.) The ceramics with the addition of Hy-Tech Acri-Flow allows you to use inexpensive, locally available paint and turn that paint into a premium, long lasting, insulating wall or ceiling paint coating.

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Click: HY-TECH

# Energy Saving Cost Effective Solution to Re-Roofing



Roof after Hurricane Wilma



Roof after replacement of missing shingles and application of HY-Tech Thermal Solution Insulating

## Problem - Re-Roofing

Hurricane Wilma caused severe damaged to my home and my insurance company paid me \$9000 after my deductible. I had estimates of \$35,000 for all repairs of which my roofing estimate was for \$15,000 for re-roofing. I realized that even if I replaced my roof with asphalt shingles that the next time a hurricane came along the shingles would be blown off again. So, I felt that I had to find an alternative solution to reroofing. After researching many roofing solutions I decided that Hy-Tech cool roof solution was the method that would meet my goals of reducing my energy costs and completely seal my roof making it hurricane and water proof. Here is the method to complete the job. I replaced the missing shingles, then we applied a primer/sealer coat of #1220 Bond– it to insure adhesion. Then we applied two coats of **Roof Guard** a bright white high build elastomeric roof coating based on the latest chemical technology and fortified with Hy-Tech insulating ceramic microspheres. This bright white high build formula is designed to insulate, seal, waterproof, soundproof and protect. The thick rubber-like ceramic reinforced shield expands and contracts with varying hot and cold temperatures plus resists thermal shock. Roof Guard offers superior mildew resistance, soundproofing, UV ray reflectivity, corrosion resistance and a beautiful insulating finish. We finished the job with **Elastoseal** a Clear Acrylic Elastomeric Sealant designed to seal and protect roofing materials and reflective roof coatings. So what did it finally cost here is the breakdown. The average cost per square foot for this roof coating system is Bond it Primer = .13 ~ Roof Guard, 2 coats = .50 ~ Elastoseal 1 coat .23 ~ Total .86 per square foot. My roof is 2600 sq ft. so the materials were \$2236 plus two bundles of asphalt shingles \$50.00 and the labor to apply the shingles and paint total job cost was \$4436.00. **Saving me \$10,564.00**

## Solution - Hy-Tech Cool Roof Solutions

Hy-Tech Is a high-performance, water-based coatings which is designed to insulate, seal, restore and protect roof surfaces. These thick rubber like ceramic reinforced paints adhere well over metal roofs, wood, shingle roofs, built-up roofs with dried-out asphalt or aluminum coatings, foam insulation, polyester plastic panels, concrete, and cement tiles and many single ply roofing materials.

### Features:

Installation ease, with Hy-Tech Roof Coatings you don't have to tear off and dispose of your old roof. This can be a major advantage because tear-offs and landfill disposal can dramatically increase installation costs, sometimes as much as 50% of the total roofing job. Tear-offs are costly and can also result in interior water damage during installation.

Weight savings. Hy-Tech Roof Coatings are well-suited for application over an existing roof and they are up to 10 times lighter than traditional materials, so there's minimal weight or stress on your building.

Save the environment. No fumes from tar, solvent-based glues, or hazardous materials to take to the landfill.

Durability Hy-Tech Insulating Roof Paints offer superior mildew resistance, soundproofing, UV reflectivity, and are resistant to ozone, acid rain and other air-borne contaminants.

Energy savings are a big plus with Hy-Tech Roof Coatings. The insulation and reflective properties provide a built-in thermal barrier against winter cold and summer heat, which can reduce heating and air conditioning costs.

**In tests conducted by the Lawrence Berkeley National Laboratory, white reflective roof coatings saved up to 50% in energy costs. Savings will vary depending upon roof assembly, insulation thickness, roof area and climate.**

## Two Ways to \$ave

### HY-TECH ThermaCels™ added to your paint:

- \*Adds a high insulating value to all paint types.
- \*Safe, non-toxic & environmentally friendly.
- \*Works with ANY paint.
- \*Formulated for interior and exterior use.
- \*Highly effective in both hot and cold climates.
- \*Greatly reduces heating and cooling demands.
- \*Simply mix into your paint and apply as usual.

### HY-TECH Pre-Mixed Ceramic Paints:

- \*Ready Mixed with Insulating Ceramics
- \*Premium grade insulating coatings
- \*Mildew Resistant
- \*Use on: wood, cement, stucco, plaster, drywall, brick, stone, metal.
- \*Easy clean up with water!
- \*Can be tinted to your choice of colors.
- \*Looks and applies just like ordinary paint.

**Whatever your choice you will reduce your utility bills and create a more comfortable home! Winter or summer, interior or exterior. Use HY-TECH products for your next painting project, an energy conservation product that will continue to work for you year after year!**

### Join the list of satisfied users...

Army Corps of Engineers  
U.S. Forestry Service  
Federal Aviation Administration  
FEMA  
Major Industry  
U.S. Government  
N.Y. City Transportation Dept  
National Home Builders  
And Homeowners Worldwide !