CERATECH Thermal Barrier Coatings

CERATECH

AN AFFORDABLE ALTERNATIVE TO AIR CONDITIONING

Installing and running conventional air-conditioning has become prohibitively expensive.

CERATECH Thermal Barrier Coatings is an acrylic coating system containing zillions of hollow ceramic beads.

Two coats of **CERATECH** applied to the roof (or walls) of a building (in place of paint) will reduce the amount of heat entering the building by up to 45%

This will reduce the internal ambient temperature by up to 6 degrees.

Easy to apply * Inexpensive * Lasts for over 15 years without maintenance

NB: For technical reasons CERATECH Thermal Barrier Coating is available in white only

CERATECH FAQ'S

- **Why only available in white?**
  CERATECH works best when white. Adding a pigment reduces the ef ectiveness dramatically. **CERATECH** is an insulation system f rst and a decorative f nish second.

- **What type of roofs can be coated with CERATECH?**
  The simple answer is 'any roof that can be painted with standard roof paint is suitable for **CERATECH**'.

- **What preparation is required?**
  Again, the preparation is the same as for any normal roof paint.

- **Can I apply the coating myself?**
  DIY by brush or roller is do-able for small areas, however the product is best sprayed by a professional.

- **How thick is the coating?**
  Two coats with a f nal wet f lm thickness (WFT) of 500 µm (mm). When cured the dry f lm thickness (DFT) will be about 320 µm. Normal roof paint is +- 70 µm.

- **Is there a f re risk?**
  CERATECH is a water-based acrylic applied to the outside of the roof. It is completely safe both in the liquid and cured state.

- **What is its life expectancy?**
  CERATECH roofs painted 15 years ago are still in service. Other than occasional washing down no maintenance is required. If it is deemed necessary, a single coat can be applied to restore the pristine white appearance.

- **How does it work?**
  CERATECH contains zillions of minute hollow ceramic spheres. The centre of the sphere contains 'dead' airspace. When radiated heat (from the sun) strikes these spheres the heat is bounced back into the atmosphere. Ceramics provide the best of all insulating material.

- **Is it 'green'?**
  It doesn't get greener. A building can be ef ectively cooled without having to use vast amounts of energy from Eskom over many years. The carbon emission of **CERATECH** is zero.

- **What are the f nancial benef ts?**
  In many instances **CERATECH** will replace the air conditioners in a building. Take the cost of the aircon unit plus the maintenance and running costs (Eskom electricity) over 15 years and measure it against the cost of **CERATECH** – no contest.

TAMING THE HEAT OF AFRICA