



Phone - Care (0413) 3483

Gram - Care Aurobindo

Solar Agni International

COMMUNITY AND ENERGY SYSTEMS
(A Unit of Mother's Centenary Memorial Trust)

Ref.....

Date.....

Insultec/Test/01/95

26th July 1995

RESEARCH
DESIGN
CONSULTANCY
 TESTING
TRAINING
FABRICATION
INSTALLATION

TEST REPORT

SAMPLE - INSULTEC x 300 μ m thick on GI sheet applied by brush in 3 coats of 100 microns each as per application Instructions by the proprietary manufacturer.

COMPANY - M/S Chitra Insultec Pvt (Ltd), "ASHISH", 2nd Floor, Swastik Junction, Navrangpura, AHMEDABAD 380 009.

RESULT - It is a mildly selective white surface with double action of solar reflector and high quality emitter. The value (ϵ/α) is :

$$\frac{\epsilon \text{ (low temperature heat radiation)}}{\alpha \text{ (solar radiation flux)}} = 4.6$$

EFFECT - * This will reduce ceiling temperature appreciably (particularly of sheet roofing) for all kinds of sun exposed surfaces.

- * In non-conditioned rooms, it will reduce the air temperature gradient from ceiling to floor considerably and also reduce the temperature at

FOR

SOLAR
WIND
BIOGAS
BIOMASS
&
 WASTE
SYSTEMS

IN

COMMUNITY
DESIGN
&
PLANNING

For SOLAR AGNI INTERNATIONAL
COMMUNITY AND ENERGY SYSTEMS


Director 26/7/95

contd...2

c/o Sri Aurobindo Ashram, Pondicherry - 605 002, India
Technical Director - Dr. C. L. Gupta



Phone - Care (0413) 3483

Gram - Care Aurobindo

Solar Agni International
COMMUNITY AND ENERGY SYSTEMS
(A Unit of Mother's Centenary Memorial Trust)

Ref.....

Date.....

Insultec/Test/01/95

26th July 1995

RESEARCH
DESIGN
CONSULTANCY
TESTING
TRAINING
FABRICATION
INSTALLATION

TEST REPORT Continued

breast level. The exact magnitude will depend upon location, surface, orientation, type of material and details of enclosure.

- * In conditioned rooms, it will cut down solar part of sensible heat gain by almost seventy percent as compared to non coated surfaces.

FOR

SOLAR
WIND
BIOGAS
BIOMASS
&
WASTE
SYSTEMS

IN

COMMUNITY
DESIGN
&
PLANNING

FOR SOLAR AGNI INTERNATIONAL
COMMUNITY AND ENERGY SYSTEMS

C.L. Gupta
(Dr. C.L. Gupta)

26/7/95

c/o Sri Aurobindo Ashram, Pondicherry-605 002, India
Technical Director—Dr. C. L. Gupta