

# Advanced Isolating Coat For Roof and Wall In lower Price

*Isolating system in lowest price affordable for middle class and lower class.*

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*Abstract—The present study experimentally proved that the effect of heat and cold can be minimised or maximised by using Advanced Isolating Coat (AIC). It improves heat isolation and helpful for heat retaliation. It also helps in increase and decrease of room tempataure. It gives better result in all seasonal activities. specially in summer season and cold where temparature change matters alot.it mainly includes combination of used isolating material and banner sheets made up of polysters and PVC for waterproofing of sheet. it is waterproof material so useful in rainy season . it is made from used material due to which it is lowest price isolating system for wall and roof upto date which is all seasonable system . second method is followed by using grade(A) plastic and grade (B) plastic, differentiated as soft plastic and hard plastic. Plastic material has lowest reactivity so it is used for direct exposure of sunlight to tackle heat and light.it also works as beautification factor . Different kinds of material is used for isolation of roof and walls but due to quality and quantity these types of products are not affordable.to tackle roof heating problem this is easiest and cheapest method to use. this is ecologically helpful method and also helpful to find alternative use for single use plastic.we can modify it as per our need and according to weather conditions, so we can change material inside pocket (bag made from PVC and polyster), material used as fillings is soft plastic, hard plastic, raw-used isolating material, wooden remainings and other raw material.The present study occured results for high heating effect of metal sheets as roof and wall. the temparature increment depends on surrounding in highly heating areas, where temparature shows drastic change as increase or decrease, so to minimise the effect of of temprature this method is useful isolating method. we are controlling heating effect from radiation, conduction and convention from outer enviroment to inner enviroment. we used try and error method and get better results for this isolating technique. we can use thermacoal, cardboards, isoalting material and material which is used and reused for purpose of minimising price, and made it affordable to middleclass people and lowerclass people.this project can be mobalised from one position to another. this project can be use for remote location houses,cabines, offices of construction sites etc. such isolating is helpful in daily life of people who lives in areas where temparature is comparatively higher than other locations or places where drastic change in temperature occures.this is all seasonal temprature controlling isoating method which protect us from heat, cold and rain.*

*IndexTerms—PVC, Isolating material, AIC,*

## 4—INTRODUCTION

In now a days peoples lives in various types places where temparature, humidity,windspeed is differnt due to pressure belts and thermal streams as hot currents and cold currents and with that also there are some locations where sun light exposure is comparatively higher than other locations due to which magnitude of temprature increases.it also heats up land , infrastructures like houses , buildings,shop etc. so people lives there have to face this heating problems . to tackle such problems our team derived advanced isolating method from cheapest material. its procedure is easiest to follow and as per our need we can modify it by changing its inner fillings as per our need and also depends on materials availability in that area. we can change inner fillings by raw plastic material, shredded plastic, leaves of tree ,wooden remainings, tyre remainings, tyre fillings, paper sheets and shredded tyre material. even we can add any solid isolating materials fillings or its shredded materials. if we kept small gap inbetween fillings that gap is also helpful for temprature transfer from higher temprature end to lower temprature end. Expansion due to heating causes crack into material so that to tackle that we can use get method material feelings in two sheets took much time to get heated so different kind of material mixture to

comparatively larger time as compared to non mixed material mixing of material is highly resistant material for heating so that it will not pass from one side to another side if pass then there should be lowest chance of hitting the material is designed for the feelings are designed as per time required and heating temperature in that area which will be more helpful to keep that room isolated the material selection is according to the environment because heating effect of each and every material depends upon the structural arrangement and materials chemical properties as well as physical properties arrangement of a material starts from type 1 material with cardboard and for type 2 material with thermocol then it has rolls of a paper attached with it for air transfer from one place to another that is airflow then another court of some material is covered with the whole thing that thing is kept for sometime then covered with used banner sheet which is made from PVC white surface is on upper side of a sheet which will work as a heat Italian and light Italian so the direct sun exposure is always on white surface of a sheet so it will not get heated easily as heat get retaliated the uppermost section is also used for waterproofing for rainy season the shit is generally kept in that pocket with ceiling and they have slight gap at the end of a sheet so it will works better as isolating material for the roof and wall.

#### ■—METHOD.

It is generally divided into 6 section

- 1) measuring and selection of a material
- 2) cutting of a material
- 3) pocket manufacturing
- 4) pocket holders and fitting
- 5) pocket assembling
- 6) finishing

primary procedure starts with measuring and selection of material in which measurements of a room or infrastructure will taken or dimensions of that project has been taken with that surface of the roof surface of wall which is plain incline occur also measurements of a wall taken with its dimensions many type of walls and roofs as per data we have collected so different type measuring methods how to follow in other hand selection of a material is done according to weather conditions climate change temperature change types of factors which changed drastically searches humidity wind speed sunlight exposure in that and available raw material for feeling after measurements and selection of a material with type a cardboard feeling and type b thermocol feeling has to be chosen if these materials are not available then leaves of a trees wood raw material for remaining material of a parichay factories is used according to their availability e type a material is cheaper than the type b material and type b material is more effective than type a material secondary procedure is a cutting of a material according to the required measurements shape and size that means its dimensions it varies with shape of infrastructure but mainly isolating material is required for the metal sheet as roof and metal sheet as a wall metal sheets get easily heated so it is important to cover it with isolating material which is a cheaper price cutting of a selected material is done by machinery is controlled manually or automatically cutting of a material according to the edge to EDGE fitting of a sheet in a pocket and feeling also but according to the required dimensions third procedure is pocket manufacturing in which the cutting of a used by another sheet is done that cutting is done by size shape of a sheet of a feeling for standard size required to the infrastructure for specific metal sheet pocket is actually a bag like structure required to fill the sheets and feeling of a material it is a single layered or double layered according to need it is generally cut for standard size to fit multiplied to fit and 2.5 X 2.5 for 3 \*3 feet it can be changed according to area which we have to cover it can be extended up to 10 by 10 feet from bigger areas pocket are then sealed with glue gun or by melting method or just stepped sometimes for drought areas where amount of rain is little bit slower than other locations temperature is high with high exposure of sunlight there this method can be useful at their humidity is also lower we can use cardboard method for that pocket is kept open from one end and shield from another end 4th procedure is a pocket feeling and pocket holder tightening on that infrastructure pocket feeling is with appropriate adjustment as it has a first step to spreadsheet for paper rolls are attached with date and year gap has to keep their for exchange of a heat with surrounding then another layer is added from both sides of a paper rolls as it has sandwich between two layers of sheet and then whole thing is stick with glue and covered with used by another sheet and from one side some remainings of plastic wood or shredded material is added as a feeling to fill the gaps and then it get covered from all sides then this whole sheet is put into pockets and sealed with glue gun or a plastic made from recycled plastic material to attach it with infrastructure some basic attachment of wooden strips Arnold with it with the help of a strip pockets are attached with the holder the procedure is completed in this also the last procedure is finishing which includes covering of whole thing with banner sheet hole and that banner sheet is attached upside down in which white side is always upward and due to which there is also gap between main sheet and outer covering and colouring as per need is done but main leli combination of white colour with the different texture should be chosen so it will be helpful for retaliation of heat and light in cheap

#### ■—DIAGRAMATIC REPRESENTATION.

1) priamary diagram of isolating cover.

2) secondary diagram of isolating cover.

**1. TABLES AND CALCULATIONS.****1) Table for cardboard materials. ( temp. in degrees)**

sr. no.	Room temp. without isolating material	Room temp. with isolating material.	Temperature difference	Average temp. difference.
1	29	24	5	6.6
2	31	26	5	6.6
3	35	28	7	6.6
4	37	29	8	6.6
5	36	28	8	6.6

**2) Table for thermacoal material. ( temp in degrees)**

sr. no.	Room temp. without isolating material.	Room temp. with isolating material.	Temperature difference.	Average temp. difference
1	29	23	6	8
2	31	24	7	8
3	35	26	9	8
4	37	28	9	8
5	36	27	9	8

**RESULT AND DISCUSSION.**

the heating effect is minimised by isolating court in cheapest price and that has average temperature drop of 6 to 10 degree Celsius and which is comparatively higher than other materials this difference is achievable by cooling house for sometime it is isolating roof and wall sheet tested for heating effect and sun exposure and it gives better result it also as a technical advancement of a isolating material which is recycled and reused single use plastic is shredded and used again which is a better alternative for a single use plastic as a recycling of it this project also gives better result for winter and rainy season with attachment and better covering this is helpful for lower middle class people and lower class people dish it is one of the better result of a plastic recycling and reuse by following five R principles

**1. conclusion**

advance isolating coat for roof and wall is better solution for isolation of infrastructure at lower price and it is also alternative for material recycling and reuse of a single use plastic and other isolating material it is a good method to isolate house or infrastructure using daily livelihood material like cardboard and thermocol so whole project is completed in a cheaper price and that is better achievement than other and it is affordable for lower middle class people middle class people and lower class people for betterment of their life

**2. references**

- 1) wikipedia recycling of material.
- 2) Youtube recycling procedures
- 3) references books
- 4) recycled material shredding