

# DURA BUILD CARE PVT. LTD.



AN ISO 9001 : 2008 COMPANY

*“Quality, Integrity Assured.”*

## DURA THERMOKOTE

Waterproofing cum thermal insulation Energy Saver coating

### DESCRIPTION

**DURA THERMOKOTE** is an acrylic based coating product for waterproofing and heat insulation to the building walls and exposed roofs. The product is in pasty form. When the product is applied on the surfaces, it reduces the heat transfer from the exterior to the interior or vice versa. It acts as an “*Energy Saver*” by reducing the power consumption load on air conditioner. It keeps the interiors of the externally coated surface of the building cooler by irradiating the solar radiation back to the atmosphere.

It can be applied as an aesthetically attractive textured or semi-smooth finish for walls or a semi-smooth uniform finish for roofs.

### MECHANISM OF INSULATION

It contains hollow microspheres based on Borosilicate Glass as microbubbles’ with outstanding ‘Heat Insulation’ property. The unique spherical shape of the glass bubble has the tendency to produce stable voids which results in low thermal conductivity and a low dielectric constant. When applied on substrate, the hollow micro spheres form a closely packed structure like ‘Air Space’ within the dry film layer that serves as insulation medium to resist heat transfer.

### AREAS OF APPLICATION

- **At a dry film thickness of 0.30mm** the film formed is classified as semi-permeable and suitable for substrates that have to breathe. As a decorative textured finish and waterproofing of external walls and facades
- **At a dry film thickness of 1.0mm** the film forms a waterproof membrane. It is technically developed for RCC roofs,
  - Walls including bricks.
  - Industrial and godown shades with asbestos cement roofing sheets.
  - Galvanized tin sheets
  - Aluminum sheets, PVC sheets/ water tanks etc.
- Electrical control panel room.
- In summer its insulation value is highly beneficial in keeping the interiors cooler and in winter the interiors remain warmer.
- In rainy season, it acts as a waterproofing barrier/ hydro insulation.
- Protective Finish. High traffic areas will require a protective cement screed over the membrane.

### SPECIFICATION

Confirms to ASTM E-903

### SPECIAL FEATURES & BENEFITS

- Up to 10°C to 12°C thermal insulation is maintained
- Special micro sphere technology is used
- During summer the interior remains cooler and in winter it remains warmer. So the coating saves energy in cooling and heating.
- Excellent waterproofing/hydro insulation properties.
- UV resistant
- Highly elastomeric and it displays excellent crack bridging property.
- Excellent breathing property
- Eco-friendly water based coating
- Easy to apply by brush, roller, airless gun etc.
- Very low odors, Soap and water clean up.
- Non flammable, non toxic
- Microbial resistant
- UV & IR resistant
- Does not contain heavy metals

## METHOD OF APPLICATION

### For Concrete Surface

#### 1. Surface preparation

- Clean the area from all loose particles, oil, grease and any such deleterious materials.
- Use wire brush or shot blasting for the above process. If required use vacuum cleaner for removing all loose solid and liquids.
- Fill the cracks with **DURAKRIT** or **DURASILFIL** depending on the crack size.

#### 2. Primer

If the surface is very dry, prime it with **DURA THERMOKOTE** diluted with water at 1:1 ratio by volume.

#### 3. Application

- Apply **DURATHERMOKOTE** by brush in two coats by both the movements of the same vertically and horizontally. Allow the first coat to become touch dry.
- Take only the quantity that is required for the area and keep the lid of the container closed.

### For Metal Surface

#### 1. Surface preparation

- Clean the metal surface to remove existing paint, rust by appropriate mechanical or chemical means.
- New surface should be degreased and cleaned well.
- Fill the cracks with **DURAKRIT** or **DURASILFIL** depending on the crack size.

#### 2. Application

- Apply **DURATHERMOKOTE** by brush in two coats by both the movements of the same vertically and horizontally. Allow the first coat to become touch dry.
- Take only the quantity that is required for the area and keep the lid of the container closed.

## TECHNICAL DATA

PROPERTIES	DESCRIPTION	SPECIFICATIONS
Consistency	Thick pasty liquid	
Colour	White	
Dilution	With portable water upto 12%	
Specific Gravity @ 27°C	1.37 ± 0.03	
Film Thickness	100 micron in single coat	
Tensile Strength @ 27°C	50 to 85 kg /cm <sup>2</sup> depending upon thickness of the dry film.	ASTM D412
Water Vapour permeability	0.20 kg /m <sup>2</sup>	
Elongation	40 -60 %	ASTM D412
Total solar energy rejected	90%	
SRI Value		
Wind driven rain resistance	No moisture penetration after 24 hrs	

## COVERAGE

2.5 to 4 m<sup>2</sup> per kg in two coats. Coverage may vary depending on texture and porosity of the surface.

## PACKING

In 5kg & 30kg pkg

## SHELF LIFE & STORAGE

12 months if unopened. Keep away from direct sunlight. Store in cool & dry place.

## HEALTH & SAFETY

Non-toxic, non-flammable, eco-friendly

**IMPORTANT:** Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

**WARRANTY:** Our high potency products are manufactured under stringent National/International Quality Standard specifications and guaranteed against any manufacturing defect. Suggestions and recommendations are made here based on our most practical experience and exposure over 25 years in the field and are believed to be most appropriate and correct BUT no liability can be accepted by us, as the conditions of use of such products are beyond our control.

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