



April 2017

# PLUS THERMACOAT+

**Dulux Trade Plus ThermaCoat+** is a revolutionary insulating coating that has been scientifically proven to permanently reduce heat loss, improve room warm-up times and help cut energy bills. **Dulux Trade Plus ThermaCoat+** enables professionals to create warmer, more comfortable spaces. **Dulux Trade Plus ThermaCoat+** is a lightweight paste that forms a thick insulating layer which can also repair cracks up to 5mm deep and smooth textured surfaces. The formulation has been designed for one-off interior application to exterior-facing walls using the bespoke **Dulux Trade Plus ThermaCoat+ Comb**, **Dulux Trade Plus Levelling Fleece** and **Dulux Trade Plus Smooth & Protect+**. **Dulux Trade Plus ThermaCoat+** is part 1, of the 3 part system.

## KEY BENEFITS

- Revolutionary thermal insulating basecoat with a thermal conductivity value  $\lambda$  of 0.05 W/m·K, that permanently creates warmer and more comfortable spaces
- Cuts heat loss through solid walls by up to 18%\*
- Reduces heat loss and room warm-up times
- Helps reduce heating costs
- Covers textured and uneven surfaces
- Repairs imperfections and cracks up to 5mm deep
- The **Dulux Trade Plus ThermaCoat+** complete system provides a smooth finish ready for painting

## PRODUCT INFORMATION

### Typical Use

- Can be applied on bare or painted brick, masonry, stone, concrete, plaster and plasterboard surfaces (and over any interior wall paint) using the **Dulux Trade Plus ThermaCoat+ Comb** and **Dulux Trade Plus Levelling Fleece**.
- Designed for one-off interior application to exterior-facing walls and substrates
- Will reduce heat loss through substrates helping to create warmer spaces and cut energy bills

Building Regulations may apply, and must be complied with at all times.

### Pack Size

10L and 20L plastic container

### Colour Range

Matt White finish, to be over-coated with any suitable **Dulux Trade** interior emulsion

### Film Properties

When dry, **Dulux Trade Plus ThermaCoat+** has a thermal conductivity value  $\lambda$  of 0.05 W/m·K.

### **Water Resistance:**

This product should not be used in areas where condensation is a problem e.g. kitchens and bathrooms

### **Reaction to Fire;**

**Dulux Trade Plus ThermaCoat+** ; Class E (EN 13501-1:2007+A1 :2009)

**Dulux Trade Plus ThermaCoat+** complete system as specified (parts 1, 2 & 3 only); Class C, s1, d0 (EN 13501-1:2007+A1:2009)

Please note **Dulux Trade Plus ThermaCoat+** system is not a fire upgrade system

### Film Thickness

Water-based coating, ready to use.

### **Layer thickness:**

**Dulux Trade Plus ThermaCoat+**; 5 mm (minimal shrinkage when drying)

**Dulux Trade Plus Smooth & Protect** 1mm wet, 0.7mm dry.

### Volume Solids

Solid content by weight: 42.1%

Solid content by volume: 72.6%

## SURFACE PREPARATION

For interior use only.

### **Preparation Summary:**

Ensure the surface and structure is firm, sound, clean, dry and free from efflorescence and other loose particles. Remove any wallpaper. Repair any structural faults. Remove any instances of damp,



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mould and condensation, prevent reoccurrence and seal any stains.

Room/area should be cleared of any furniture, and any remaining items properly covered, to avoid any potential loose fibres from the Dulux Trade Plus Levelling fleece landing on items and causing irritation post application. Before returning the area/room back to use, dust sheets should be carefully removed and the area cleaned.

To get the best results, remove radiators and any other non-fixed objects. Cover all remaining fixtures, tape joints, fittings, furniture and carpets.

For holes and cracks greater than 5mm use appropriate **Polycell Trade** filler and allow to dry before application.

Special precautions should be taken during surface preparation of pre-1960s paint surfaces over wood and metal as they may contain harmful lead.

### SYSTEMS INFORMATION

Wear gloves, dust mask, arm and eye protection.

#### Summary:

Working in 1.5m sections apply approx. 10mm thick layer of **Dulux Trade Plus ThermaCoat+** using the **Dulux Trade Plus ThermaCoat+ Comb** to apply the coating from the bottom of the wall to the top. **Tip:** heavily load tool to aid application and then spread the coating vertically or horizontally using the teeth until a consistent pattern is achieved.

Place the **Dulux Trade Plus Levelling Fleece** over the area and gently push onto the surface until it adheres. Use the **Dulux Trade Plus Levelling Tool** to gently distribute the coating, spreading an even layer across the substrate.

When additional fleeces are needed overlap by 15cm, perform a double cut using a wavy line through both fleeces and remove upper and lower strip. Then smooth the area along the seam. **Tip:** While wet you can pull off the **Dulux Trade Plus Levelling Fleece** and add/remove product using a filling knife if required.

The above will create a 5mm insulating layer across the substrate.

Leave to dry overnight (minimum 12 hours depending on conditions). Then apply a thin (1mm) layer of **Dulux Trade Plus Smooth &**

**Protect+** using a plastic spatula to provide a tough, durable finish.

Leave to dry (minimum 12 hours) before lightly sanding with very fine (240+ Grit) sandpaper and painting with two coats of any appropriate **Dulux Trade** interior emulsion (for best results thin first coat up to 1 part clean water to 10 parts paint).

The system does not provide a decorative finish and must be over coated with an appropriate paint.

For further application advice e.g. applying around windows or reveals please refer to **Dulux Trade Plus ThermaCoat+** training material, for more information call 0333 222 70 70 (UK) or 021 422 02 22 (ROI) or visit [duluxtrade.co.uk](http://duluxtrade.co.uk).

### APPLICATION METHOD

For best results we highly recommend using the specially designed **Dulux Trade Plus ThermaCoat+ Comb**, and **Dulux Trade Plus Levelling Tool** which can deliver a smooth and flat 5mm layer in one coat.

Alternative notched or flat trowels can be used but may lead to lower film thickness and require additional coats.

#### Practical Coverage

For optimum results apply 5mm layer:  
Coverage; 5L = 1 m<sup>2</sup>

#### Thinning

Product is ready for use. Do not thin.

#### Spray Recommendations

Do not spray

#### Drying Times

Depending on layer thickness, substrate, temperature and relative humidity, the product will take minimum 12 hours to dry.

Do not touch whilst drying, because the fibres from the exposed Dulux Trade Plus Levelling Fleece may cause skin irritation; also, you may risk damaging the Dulux Trade Plus ThermaCoat+ coating

Once dry the **Dulux Trade Plus ThermaCoat+** complete system can be lightly sanded using very fine sandpaper (minimum 240+ Grit) and then painted with any appropriate **Dulux Trade** interior emulsion.



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Please note the system can take up to 7 days to fully cure and gain full strength.

***Touch Dry for painting:*** 12 hours.

***Recoat:*** Minimum 12 hours (depending on conditions)

***Fully cured:*** 7 days

### Cleaning Up

After use, scrape any re-useable product from tools back into the pack for reuse and then clean tools with water. If you have leftover product please consider donating it to **Community RePaint**. Alternatively, leave any remaining product in an unsealed pack to harden before disposing

responsibly. When this container is empty please ask your stockist about recycling. Find out more at [duluxtrade.co.uk/pp](http://duluxtrade.co.uk/pp).

### Transportation and Storage

Do not use or store in extremes of temperature and protect from frost. Unopened containers can be stored for at least 24 months between 5°C-30°C.

To prevent spillage, please store and transport upright.

### VOC

VOC content: Minimal (0-0.29%).

## FURTHER SUPPORT

If you need further support, please contact the **AkzoNobel** Technical Advice Centre on [0333 222 70 70](tel:03332227070) (UK) or [021 422 0222](tel:0214220222) (ROI).

***Always read full Health, Safety and Environmental Information on can before use.***

Safety datasheets are available free on request by telephoning the **AkzoNobel** Technical Advice Centre or by visiting [duluxtrade.co.uk](http://duluxtrade.co.uk).

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\*BRE laboratory tests in a matched pair of test cells with wall U-values equivalent to a standard solid brick wall (220 mm) showed that a 5.5 mm coating of **Dulux Trade Plus Thermacoat+** complete system would reduce the heat loss through the walls by approximately 18%.