



DULUX Specification

Coating System for :
ECOBLOCK Insulating Concrete Forming System

Substrate:

EcoBlock Insulating Concrete Forming System is a permanent (“lost” or “stay in place”) concrete formwork system comprising modular Expanded Polystyrene panels retained as formwork by high density plastic bracing of various dimensions to form various thickness concrete core filled, load bearing walls.

Panel face alignment is established by way of male-female interlocking joints between panels aiding alignment.
 Panel faces are vertically ribbed.

Scope:

The following specification is provided on the basis that the substrate, and construction design and installation comply with relevant building codes, and provide a stable surface for subsequent finishing systems.

All Engineering and/or Design detail is beyond the scope of Dulux.

The following specification provides a fiberglass reinforced - polymer modified, base coat leveling and coating system for EcoBlock polystyrene lost formwork panels installed true and level and is provided on the basis that users satisfy themselves and respective clients of its suitability to their specific requirements and that the system is applied in full accordance with recommendations.

IMPORTANT :

System adhesion to Polystyrene relies on proper substrate preparation and the correct addition of Dulux AcraTex AcraBond (Acrylic Adhesion Promoter) to the base RenderWall layers.

Substrate Preparation:

All design, construction and installation detail must comply with relevant building codes and be in strict accordance with substrate manufactures instructions & recommendations.

Dulux AcraTex recommends suitable expansion/contraction relief joints be installed at natural building weak points eg in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of different building construction materials and or as defined by Engineer. All fixings must be non-corrosive, suitable for the exposure condition and be in accordance with substrate supplier recommendations.

Panel Face & Joint Alignment

Panel alignment is critical in all lost formwork systems and specific attention must be given to panel alignment and retention of forms through the concrete core fill and cure process. Ensure that all joints between panels accurately align and floor-to-floor alignment ensures a true and flat plane across all elevations.

It is the responsibility of the EcoBlock installer to ensure panel alignment post core filling is true and flush.

Surface Integrity

Polystyrene surfaces may be affected by exposure to UV. External finishing of Polystyrene surfaces should take place within 14 days of panel exposure.

Lightly abrade the surface with suitable 8 to 16 grit sanding blocks to provide additional adhesion “key”. Remove all surface contaminants by dusting or low pressure wash where required.

Polystyrene surface must be completely dry before application of the base-leveilling coat.

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Date		Approved By		Date	13/02/08	Approved By	

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Coating System:

REINFORCED BASE LEVELLING LAYER	Duspec	AcraBond Addition	Cover mm (kg dry/m ²) ⁽³⁾	Mesh Layer ⁽³⁾	Recoat ⁽⁴⁾
BASECOAT : DULUX AcraTex Renderwall⁽²⁾ Mix Water and AcraBond according to the required mix ratio to form the Basecoat gauging liquid. Mix Renderwall with the gauging liquid to form a trowelable paste. Apply by hawk and trowel or render pump onto the EcoBlock surface to fully wet out the surface. Immediately (while still wet), embed Fibreglass mesh and then immediately apply a "sandwich" layer ("wet on wet") of the Renderwall Basecoat mixture to fully embed the mesh. <i>Finish the base coat layer by lightly scratching the surface to provide a surface "key" for subsequent coats.</i>	DA0443	2:1 Water : AcraBond In gauging liquid	3mm (5-6)	Alkali resistant Fibre Glass mesh (full surface layer) 180 gm weight 5 x 5 mm aperture	4 Hours
LEVELLING : DULUX AcraTex Renderwall⁽²⁾ Apply by hawk and trowel or render pump over Base Coat application. Screed and float level <i>Finish by polystyrene float to suitable level finish for subsequent Texture Coating.</i>	DA0443	6:1 Water : AcraBond In gauging liquid	3 (5-6)	N/A	48 hours

COATING System	Duspec	WFT (microns)	DFT (microns)	Coverage L / m ²	Recoat
PRIMER DULUX AcraPrime 501/1 ⁽²⁾ <i>Nap roller</i>	DA0441	100	20	10	1 hour
TEXTURE COAT DULUX AcraTex 951 Trowel On Coventry Coarse ⁽²⁾ <i>Steel Trowel / Plastic float</i>	DA1065	1250	900	0.8	24 hours
SHIELDCOAT (1st coat) DULUX AcraTex 955 AcraShield Matt ⁽²⁾ <i>Nap roller</i>	DA0432	170	75	6	24 hours
SHIELDCOAT (2nd coat) DULUX AcraTex 955 AcraShield Matt ⁽²⁾ <i>Nap roller</i>	DA0432	170	75	6	7 Days full cure

⁽²⁾ Refer relevant Product and application data for full product detail
⁽³⁾ Practical Spreading Rate will vary from the Theoretical Spreading Rate due to factors such as method and condition of application and surface roughness.
⁽⁴⁾ Recoat times are quoted for 25°C and 50% Relative Humidity, these may vary under different conditions

Important Notes:

Coatings should be applied in full accordance with relative product Technical and Applicational data sheets. Dulux AcraTex accepts no liability for cracking or joint deformation, as control of structural movement is beyond the scope of a coating specification. This specification assumes component suitability – refer component supplier for full product and performance details. Dark colours increase expansion/contraction of a substrate due to heat absorbed and should be avoided in critical situations. Do not apply materials if the air temperature is below 10C or above 30C (or likely to fall below 10C, or if Rain is expected during the drying period), or where Relative Humidity is above 85% or where temperature is within 3C of Dew Point (refer standard Dew Point calculations relevant to prevailing temp and R.H. conditions)

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