



# DuSpec Guideline Sheet

## DULUX AcraTex Coating System for: Magnesium Oxide Sandwich Panelling.

### Substrate:

Magnesium Oxide Cement face panelling Systems is an upgraded panel system substituting original Fibre Cement face panels with Magnesium Oxide Cement. These panelling systems are core filled to provide various benefits including but not limited to insulation, strength, acoustic properties and may include structural re-enforcement. Magnesium Oxide Cement face panels is denser than original FC panels, requiring the use of AcraPrime S/B additional to coating system. The face of any formed or moulded Magnesium Oxide cement surface may contain release oils and additional care must be taken to ensure cleaning /removal of all contaminates prior to coating system installation.

**This coating specification does not constitute Dulux endorsement of any walling or cladding system or the suitability of building envelope / building system to meet the specific requirements of a given project.**

**Users of this specification will satisfy themselves of the suitability of this specification / advice, relevant to their specific project requirements.**

**In all cases Building System Design must conform to relevant Local / Building Codes or regulations and be in accordance with substrate supplier's recommendations. Users must make their own determinations as to the suitability of this material relevant to specific requirements.**

### Substrate Preparation:

As required the need for frame detail and/ or panel fixing 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 control of joint & sheeting alignment. Ensure that all joints between panels accurately align and floor-to-floor alignment ensures a true and flat plane across the elevation.

It is the responsibility of the panel installer to ensure all joints or major imperfections, misalignments are filled and sanded true & flush before applying any coatings system. Remove all surface contaminants such as oil, grease or dirt, dust by hosing suitable detergent /pressure wash before coating.

**NOTE: WHERE MAJOR MISALIGNMENT OCCURS REFER TO DULUX AcraTex FOR RECOMMENDATIONS.**

### Priming, Jointing & Texturing System:

Magnesium Oxide Sandwich Panelling COATING SYSTEM	Data Sheet	Application Rate	Recoat ** @25°C & 50% RH
<b>PRIME:</b> <b>DULUX AcraTex 501/2 AcraPrime Solvent Based</b> Brush, roller and airless spray	DA0442	Min 10um 10.0.sq m2 per litre	24 Hours
<b>JOINT FLUSHING</b> <b>DULUX AcraPatch Course L/Shade 194-20806</b> Mix AcraPatch Course with 10% Portland Cement and apply to joint recess and immediately install Acratex Reinforcing Tape into the wet AcraPatch followed by further AcraPatch to fill the recess. Application of AcraPatch should be 'wet on wet' to insure maximum integrity of the joint.	AUSA 2925	12 m <sup>2</sup> per Litre	8 hour
<b>BASE COAT</b> <b>DULUX Acratex – AcraPatch High Build L/Shade 194-85841</b> <b>Mix Ratio</b> 15L AcraTex 500/11 AcraPatch HB; 300mls Portland Cement (5%) Use a power mixing device to incorporate 5% cement Ensure that all imperfections are filled, work away from the sun (in shaded areas). Apply with Tex Spray, Hopper Gun or Hawk & Trowel evenly over surface to an overall film <b>minimum thickness of 2mm</b> , to a Maximum film thickness of 6mm in a single pass. <b>DO NOT overspread the material.</b> Follow up with a light 'floating' process to level out the product using a polystyrene float or red plastic trowel.	AUDA0440	0.8L / m <sup>2</sup> / mm  1x15L AcraPatch HB will cover 6 m <sup>2</sup> @ 2mm thick	16 – 24 Hours
<b>EXPANSION JOINTS</b> It is recommended that all control joints be filled after the Texture coating system has been applied using a suitable (paintable) polyurethane joint sealant. Care must be taken to ensure joint remains free of Texture material during application, or joint is cleaned out prior to sealant application. Subsequently colour coating over the joint sealant can be accomplished with the specified system topcoat If the joints are sealed/ filled first, the texture coating shall not be applied over such sealed joints. (masking is recommended) <i>Cracking of colour coat material applied over joint sealants may occur due to the design movement of the joint system.            Such cracking is not indicative of coating system failure.</i>			

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This specification should be read in conjunction with the Product Datasheets specified within this document.

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**Magnesium Oxide Sandwich Panelling.**

## Coating System:

<b>1<sup>st</sup> TOP COAT</b> Apply over the surface ensuring a wet edge is maintained over the application area Nap ROLLER finish Apply 1 coat using a 10 – 20 mm Nap roller at 4 m <sup>2</sup> /L LOW PROFILE TEXTURE (requires higher material consumption) Apply 1 coat with a low profile black Texture Roller at 2-3 m <sup>2</sup> /L	<b>DULUX Acratex – AcraSkin L/Shade 194-85675</b>	AUDA1392	4 m <sup>2</sup> /Litre	4 Hours Protect from rain in first 24 hours
<b>FINISHING TOP COAT</b> Apply with a 10-20mm nap roller over the surface ensuring a wet edge is maintained over the application area – Dulux recommends 2 coats application for even coverage to minimising “cutting in” and “lap marks” effects.	<b>DULUX Acratex - AcraSkin Line/Shade 194-85675</b>	AUDA1392	4 m <sup>2</sup> / Litre	4 Hours Protect from rain in first 24 hours

## Important Notes:

Coatings should be applied in full accordance with relative product Technical and Applicational data sheets.  
 Dulux AcraTex accepts no liability for joint cracking or joint deformation, as control of structural movement is beyond the scope of a coating specification.  
 Do not apply paint if Relative Humidity is above 85% or temperature is within 3°C of Dew Point, or the surface temperature is greater than 40°C or below 10°C, or likely to fall below 10°C during the drying period.

This system is recommended where panel misalignment is NOT greater than 4mm.

This specification assumes the substrate and building system to be fit for purpose and that end users satisfy themselves of the suitability of specification advice relevant to their specific requirements. Dulux accepts no liability for building system durability, substrate deformation, cracking or joint deformation.

In all cladding systems

Dulux recommends end users seek specific design advice relevant to building moisture management design relevant to the structural design, façade exposure and project location.

Practical Application Rates will vary from the quoted theoretical spread rate due to factors such as method and condition of the application and surface roughness, and or panel misalignment.

Glancing light

Joints and panel deformation may be clearly evident under glancing light, casting visible shadows of the minute and uneven projections of the joints.

Glancing light is light that is nearly parallel to the surface of the wall and casts visible shadows and uneven projections of the joints. Just like rendered masonry any uneven projections will be highlighted and as such are outside the control / scope of this specification.

Where possible avoid dark colours - these will give raise to much higher surface temperature that may cause addition thermal stress and cooling demand to the building envelope and/ or require extra engineering considerations (greater building costs).

Use colours with a LRV greater than 40% or consult Dulux on the potential to use InfraCOOL Heat Reflective Coatings that will keep the surface cooler.

Dulux Coatings should be applied in full accordance with relative Dulux Product Technical and Application data sheets.

This coating specification does not constitute Dulux endorsement of any building system or the suitability of any building system specific to project requirements and as such is outside the scope of this specification.

This full AcraTex system is to be applied by a DULUX AcraTex trained applicator, according to this specification, & at the specified spreading rates, & to the surface preparation details described by DULUX AcraTex.

\*\*Recoat times are quoted for 25°C and 50% relative humidity these may vary under different conditions. Longer time will be required under adverse conditions.

Project		Duspec		DULUX Acratex – Guideline for MgO Panelling System using AcraPatch HB / AcraSkin Finishing System	
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