

Texture Systems

Preparation and Coating Recommendations

Substrate: CSR Hebel® PowerWall® (Powerpanel)



1

Hebel PowerBase Hebel PowerFinish

2 Coat, high build, TOTAL ACRYLIC, levelling and finishing system, designed by Dulux AcraTex, specifically for CSR Hebel PowerPanel which has been installed true and level. The 2 Coat process delivers maximum Project efficiencies, shortening finishing cycle times whilst providing a traditional sand texture appearance and guaranteed performance.

Hebel PowerPanel

The core component of Hebel systems is a 75mm thick, steel mesh reinforced panel providing building integrity, thermal efficiency and fire resistant properties. A Hebel Home is designed with an eye to the future providing comfort and energy efficiency with its environmentally responsible building systems.

2

Hebel PowerBase



High build, Acrylic levelling and body coat. AcraTex PowerBase provides the core of the texture and finishing system delivering 2-4mm build which is flexible to accommodate normal building expansion and contraction.

3

Hebel PowerFinish



Mid build, Acrylic finishing and barrier coat. AcraTex PowerFinish provides the decorative and protective final layer delivering a fine grain natural finish whilst maintaining barrier performance through its unique water phobic technology.

Colour shown is Dulux Arava PI3D5.
Colour may vary due to printing process.



Texture Systems

Information Sheet

CSR Hebel® PowerWall® (Powerpanel)

Applications

CSR Hebel® has developed products and systems for all segments of the construction industry: New housing, alterations and additions, high & low-rise multi residential, commercial & industrial and freeway noise barriers. Hebel® PowerWall® System is most commonly and effectively used for external construction for residential housing.

Description

CSR Hebel® PowerPanel® is a 75mm thick panel of Autoclaved Aerated Concrete (AAC) with corrosion protected steel reinforcement embedded during production. Sheets come in a variety of different widths and lengths. This lightweight, yet solid masonry panel is ideally suited to external cladding for timber or steel frame construction in a wide variety of applications.

Key features/benefits

- Fast construction method
- Excellent thermal qualities
- Fire and acoustic characteristics
- Pest resistance
- Cost effective product allowing flexible lightweight construction

Coating Systems

CSR Hebel PowerPanel requires a total finishing system designed to accommodate the specific technical and practical characteristics of the substrate as follows :

Flexibility - Tensile Strength & System Design

All system elements must be compatible with the CSR Hebel Substrate. Systems incorporating cementitious render base or levelling coats must be not impart tensile forces greater than that of the Hebel substrate. Rigid, high tensile strength renders may cause substrate damage, delamination and cracking. CSR Hebel endorsed Hebel Skimcoat, Hebel High Build (Cementitious-Polymer) and Hebel PowerBase (TOTAL ACRYLIC) are designed by Dulux AcraTex specifically to meet substrate technical requirements.

Levelling:

The building system is dimensionally accurate and when installed to standards, panel alignment of less 1mm deflection is achievable and desirable. Panels installed true and flush provide optimal system efficiencies, enabling skim coat preparatory systems. Installed finishing system costs will increase where panel alignment is poor.

Levelling Options relative to panel alignment:

- True & Flush joints : Hebel Skimcoat or Hebel Power Base
- 1-3mm deflection : Hebel Skimcoat
- >3mm deflection : Hebel High build

Weatherability (water ingress)

Coating systems must prevent the ingress of wind driven rain and maintain a barrier system through normal expansion and contraction of the building system.

Crack Bridging

Expansion and contraction of the building system and any levelling render requires a high build, elastomeric coating system capable of bridge up to 1mm cracking.

Breathability (vapour permeability)

Whilst maintaining a weather barrier, coating systems must still allow the escape of moisture vapour to prevent the build up of normal atmospheric moisture in the substrate. CSR Hebel recommend coatings system with a Moisture Vapour Transmission resistance (Sd) LESS than 2m. Less resistance equates to high vapour transmission.

For further information on Hebel Products call **1300 369 448** or go to: **www.hebelaustralia.com.au** For further information on Dulux coatings call **13 23 77** or go to: **www.acratex.com.au**

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HEBEL POWERBASE - POWER FINISH SYSTEM BY DULUX ACRATEX

Features and Benefits

- 2 Coat : Fast installation , Shortest Project Cycle Hebel System
- Fast, Trowel applied system : No additional 2nd trade
- High Build basecoat : 2-3mm levelling capacity
- Total Acrylic System (NO cement): Highly flexible system, enhanced system crack bridging
- Silicon-Acrylic finish coat : Hydrophobic water phobic technology
- Colour integration throughout : Chips and Scratches not exposed.

Colour

Dulux Colour is integrated right through the PowerBase - PowerFinish system, for maximum durability. Select from the exterior Dulux colour range, from pastel through to most deep and ultra deep colours for broadwall and feature elements. Where extra bright or specialty coloured base selections are made for project elements, these can be top-coated with AcraShield topcoat to meet project requirements". For project colour samples contact your Dulux representative.

System requirements - Panel Installation

Frame detail and panel fixing must comply with relevant building codes and be in strict accordance with CSR Hebel installation 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.

Face & Joint Alignment/Preparation

Panel alignment is critical in all cladding systems and specific attention must be given to control of framing and/or panel alignment. Ensure that all joints between panels are filled with adequate panel adhesive to allow striking flush of excess glue at panel face and 'panel-to-panel' face alignment is true and flat. 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 down with fresh potable water before application of the coating system.

Control Joints

Are best treated before the coating system is applied. The use of a PU - Poly Urethane 'paintable' Sealant incorporating backing rod in strict accordance with the manufacturer recommendation for use on AAC should be used in all cases. Select a colour that is complimentary to the final Texture colour. Apply Sealant on completion of the panel installation to ensure adequate curing. At application stage, the coatings applicator shall apply a 4- 6mm masking tape (matching the joint detail) over the cured sealant and once processing of the Basecoat is completed at the joint, shall immediately remove masking to ensure basecoat does not bridge the sealant joint. Just prior to the application of the Finishing Coat, additional masking tape is applied to the recess formed at the joint and removed whilst the finishing coat is still wet. Alternatively no masking tape is applied and the Finishing Coat is processed over the joint using a shallow expansion tool. Coating applications over control jointing may crack due to inherent expansion and contraction and subsequent joint deformation.

Overcoating

Optional, dependant on project requirements. AcraShield (shield-topcoat) is recommended in severe environments (coastal/industrial), or in commercial applications, where additional dirt pick up resistance is required.

Coating Installations

BASE COAT : Hebel PowerBase

Ensure that all imperfections are filled, work away from the sun (in shaded areas). Apply with Hawk & Trowel evenly over the panel surface to the thickness of the largest particles. Follow up with a light 'floating' process to level out the product using a polystyrene float or red plastic trowel.

Material usage guide : 2 - 2.2 L / m² In warmer weather the surface of the Hebel PowerPanel may be temper with clean water prior to the application of the PowerBase coat.

FINISHING COAT: Hebel PowerFinish

Apply with Hawk & Trowel evenly over surface to the thickness of the largest particles.

Follow up with a light 'floating' process to level out the product using red plastic trowel/float.

Material usage guide : 1.3 - 1.4 L / m²

This information should be read in conjunction full product Technical and Applicational data available for Dulux AcraTex.