



ULTIM8[®] HPX PANELS

**HIGH PERFORMANCE
MULTI-USE EXTERIOR PANELS
TECHNICAL INFORMATION PACK**



www.ultim8materials.com



HPX PANELS TECHNICAL DATA SHEET

ULTIM8 HPX PANELS are a highly durable substrate that provide enhanced machinability and dimensional stability. Suitable for surface decoration, ULTIM8 HPX PANELS deliver extended design flexibility, potential and application possibilities through next generation Composite Technology.

ULTIM8 HPX Panels are a suitable substrate for a variety of wet area and exterior applications. These innovative properties provide product manufacturers, fabricators, designers, architects and builders with versatile and economical building panel solutions.

ULTIM8 HPX Panels are exterior rated providing superior water resistance performance in wet areas or intermittent flooding. Perfect for projects where durability, stability and versatility is desired both indoors and outdoor.

ULTIM8 HPX requires no additional treatment to protect it from termites, decay or dimensional instability.



EXTERIOR RATED WATER RESISTANT

Longer lasting, perfect for outdoor use or wet (interior and exterior) environments. Suitable for where wet or exterior rated performance is required.



DIMENSIONAL STABILITY

Minimal swelling, shrinkage splintering or cracking.



25 YEAR WARRANTY

Peace of mind with a 25 year interior and full exterior warranty.

TERMS AND CONDITIONS APPLY.



THERMOFORMABLE DESIGN FLEXIBILITY

Combines the benefits of high grade thermoformable fibreboard with enhanced durability and performance.



MULTIPLE SURFACE OPTIONS

Perfect substrate for decoration with foils, laminates and veneers using quality PUR adhesives for Interior and Exterior applications



LESS MAINTENANCE GREATER SAVINGS

Extended periods between panel maintenance requirements or replacement



TERMITE, MOULD AND MILDEW RESISTANT

Resistant to Termites, insects, fungal, mould or mildew decay



NO ADDED FORMALDAHYDE

HPX PANELS contain no added Formaldehyde



SOUND REDUCTION PROPERTIES

Sound Transmission Class (Average of Transmission Loss) 40.12



SUSTAINABLE GBCA APPROVED

Made using agricultural organic waste. 100% free from timber or timber by products.



100% RECYCLABLE NO HARMFUL VOC'S

Can be recycled using facilities with the appropriate technology



EASY TO MACHINE, DRILL AND FIX

Use standard wood working tools to cut, drill, and router Fix using standard fibreboard



PRODUCT AVAILABILITY

ULTIM8 HPX Panels are produced in the following standard panel sizes:

***16mm: 2440mmx1220mm, 3050mmx1220mm**

***18mm: 2440mmx1220mm, 3050mmx1220mm**

Other thicknesses and panel dimensions may be produced to order upon request.

MOQs apply for special requests.

HPX PANELS TECHNICAL DATA SHEET

GENERAL TECHNICAL SPECIFICATIONS

TEST	METHOD	UNIT	RESULT
DENSITY	ASTM D792	Kg/CBM	800.349
WATER ABSORPTION AFTER 2 HRS	IS : 2380	%	0.02
WATER ABSORPTION AFTER 24 HRS	IS : 2380	%	0.12
THICKNESS SWELLING AFTER 2 HRS	IS : 2380	%	0.06
MODULUS OF RUPTURE - AVERAGE	IS : 2380	N/mm ²	14.5
MODULUS OF RUPTURE - MINIMUM INDIVIDUAL	IS : 2380	N/mm ²	14.4
MODULUS OF ELASTICITY - AVERAGE	IS : 2380	N/mm ²	1327
MODULUS OF ELASTICITY - MINIMUM INDIVIDUAL	IS : 2380	N/mm ²	1290
SCREW WITHDRAWAL - FACE	IS : 2380	N	2252
SCREW WITHDRAWAL - EDGE	IS : 2380	N	1409
TENSILE STRENGTH	ASTM D638	MPa	7.6
COMPRESSION STRENGTH	ASTM D695	MPa	40.2
ELONGATION @ BREAK	ASTM D638	%	2
CHARPY IMPACT STRENGTH	ASTM D6110	KJ/m ²	6.25
HEAT DEFLECTION @ 0.45MPA	ASTM D648	°C	64.45
SOFTENING TEMPERATURE @ 1 KG	ASTM D1525	°C	72.5
VOC EMISSIONS	EPA : 5035A (by GCMS)	Mg/KG	Below detectable limit
TEST FOR TERMITE RESISTANCE	IS 4833		No sign of termite attack
TEST FOR FUNGAL RESISTANCE	IS 4873		No sign of fungal attack
TEST FOR BORER RESISTANCE	IS 4873		No sign of borer attack

FIRE RATED PERFORMANCE TEST SUMMARY:

UIC564-2 test is connected to regulations relating to fire protection and firefighting measures in passenger carrying railway vehicles or assimilated vehicles used on international services. Under Appendix 11, the specimen is held vertically in a frame and is exposed to a gas flame which is directed on to the surface of the specimen.

UL94 is a flammability standard by the Underwriters Laboratories of the United States of America. The standard determines the material's tendency to either extinguish or spread the flame once the specimen is ignited. V0 rating means - burning stops within 10 seconds.

ASTM E84 is an American test standard for assessing the surface burning characteristics of building products. The purpose of this test is to observe the flame spread in order to determine the relative burning behavior of the material.

Flame spread index is the measurement for the speed at which the flame **progresses across the interior surface of the panel.**

TEST	METHOD	LIMIT	RESULT
FIRE RESISTANCE	APPENDIX 11 OF UIC 564.2 OR		CLASS A
FLAMMABILITY	UL94		V0 Rating
FLAME SPREAD INDEX	ASTM E84 : 2020	0 - 25 CLASS 1 OR A	6 CLASS 1 OR A
SMOKE DEVELOPED INDEX	ASTM E84 : 2020	450	100

HPX PANELS TECHNICAL DATA SHEET

ACOUSTIC PERFORMANCE

SOUND ABSORPTION COEFFICIENT AS PER IS 10420:1982 AND TRANSMISSION LOSS AS PER ISO 10534-2:1998		
FREQUENCY (Hz)	SOUND ABSORPTION CO-EFF.	TRANSMISSION LOSS (dB/1.0)
125	0.02	26.19
250	0.03	22.53
500	0.04	32.85
1000	0.06	40.20
1500	0.06	44.50
2000	0.05	47.33
2500	0.05	45.61
3000	0.06	47.83
3500	0.08	46.6
4000	0.10	47.56
Sound Transmission Class (Average of Transmission Loss) : 40.12		

SPAN AND SUPPORT RECOMMENDATIONS (for doors).

ULTIM8 HPX panels are homogeneous in their structure. Hence, support frames are required as per the table below for larger areas to avoid excessive panel deflection:

Maximum Support Distance

Thickness of HPX Panel (mm)	6	8	12	15/16	18	20	25	
Build (in mm)	800+ Kg/CBM	250	350	450	550	600	650	750

NOTES:

1. Fixing of magnetic ball catch must be used at the top and bottom of the wardrobe/cabinet shutter doors. Use of straightener/stiffener is recommended.
2. Use box type door hinges at a span of every 400mm.
3. Shutters should be fixed only after overlaying laminate, veneer, edge band/lipping or applying epoxy/solvent based putty/primer/sealant all around in order to close micro pores to avoid possible bowing.
4. Ensure framing on all four sides and necessary stiffeners for sliding doors/shutters.
5. Suggested glue : PUR. Drying time may vary depending on the atmospheric conditions.
6. For ceiling, use 12mm or more with suggested grid support of 300mm only
7. Do not pour water on raw boards before closing micro pores of the surface and edges.
8. Leave 5mm gap between the board and the wall and 5mm gap on ceiling and floor for breathing and expansion/ contraction.

HPX PANELS TECHNICAL DATA SHEET

FABRICATION GUIDELINES:

PANEL STORAGE AND INSTALLATION

It is recommended that ULTIM8 HPX panels be stored and installed with adequate air flow available to both faces of the panels. This will help to ensure that equilibration to the required storage or installation environment for both faces of the panels can be achieved to maintain optimum panel stability.

MACHINING AND FINISHING

ULTIM8 HPX inspires you to design smarter and create faster.

Handling ULTIM8 HPX is as easy to fabricate as conventional wood panels.

You can cut, machine, nail, screw and drill with ease. ULTIM8 HPX may be cut, machined and used in exactly the same way as other timber-based panels to deliver clean cut edges and profiled faces.

The high content of natural fibres enables good screw and nail holding. Choose fasteners that are counter sunk with a wide head and fully threaded. Gluing the edge adds to the strength of the joinery. Stainless steel screws are ideal for outdoor applications

ULTIM8 HPX is delivered with a 120 grit sanded finish as standard. It may be sanded to achieve smoother or deeper textured surfaces as desired, using suitable sanding grit papers.

ULTIM8 HPX SURFACE DECORATION

ULTIM8 HPX may be decorated with foils, high pressure laminates, acrylic sheet and other surfacing materials. Quality adhesives such as PUR (polyurethane reactive) may be used. Please follow instructions or seek support from adhesive product suppliers for guidelines on application and suitability for the intended surface decoration materials.

ULTIM8 HPX may also be decorated using approved coating systems. Please see the coating manufacturers guidelines and warranties to ensure correct procedures for surface coating and sealing of ULTIM8 HPX products are followed.

Any pattern or design can be printed onto ULTIM8 HPX using a flatbed digital printer. Ensure that the board is free from dust before printing. We also recommend applying a transparent sealant or a coat of varnish to protect the printed area from abrasion and dust.

THERMOFORMING

ULTIM8 HPX panels can be thermoformed using a thermoforming machine, heat oven, heat gun or infrared heater.

Effortless thermoforming without any compromises on the strength is a unique feature of ULTIM8 HPX. The high content of natural fibres makes sure that the density and dimensional stability remains uncompromised post thermoforming.

Heating temperature	140 – 160 degree Celsius
Heating time	1-2 min/mm of board thickness (for example 18-36 minutes for 18 mm board)
Locking time	5-20 minutes depending on the thickness of the panel and atmospheric conditions
Cooling time	1-2 minutes/mm of board thickness

The ULTIM8 HPX panel may shrink when shape is given. Hence, consideration for possible shrinkage must be allowed for after the board is formed and cut to final dimensions. It is suggested to prepare a mold to ensure even and proper shaping of the ULTIM8 HPX panels.



ULTIM8[®] HPX PANELS

**HIGH PERFORMANCE
MULTI-USE EXTERIOR PANELS
STORAGE AND HANDLING**



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HPX PANELS TECHNICAL DATA SHEET

STORAGE AND HANDLING GUIDE

LOADING AND UNLOADING CONTAINERS

Loading and unloading containers must be done in accordance with the ULTIM8 PanelsNEL Container Loading instructions.

OPENING PACKS

Care must be taken when cutting straps to open ULTIM8 PanelsNEL packs. Packs must be flat and level on the ground before any straps are cut. Packs must not be moved if any straps have been removed or are broken. Missing straps must be replaced prior to moving packs.

Ensure carton cutter blades or Stanley knife blades do not contact the ULTIM8 PanelsNEL, which may cause damage to the boards.

STORAGE

ULTIM8 PanelsNEL

- MUST be supported at least every 600mm on a level surface, including supports at both ends
- MUST be laid flat for storage, and never at an angle
- MUST be stored in dry conditions, at least 100mm off the ground
- MUST remain covered until it is time to use them for installation
- MUST NOT be stacked more than 4 pallets high, and then only where safe to do so
- MUST only be stored on racks with appropriate load ratings

TRANSPORT

ULTIM8 HPX Panels:

- MUST be protected by top and bottom cover sheets on every pack
- MUST be laid flat during transport, and never at an angle
- MUST always be appropriately strapped and secured during transportation
- MUST never dropped or 'dumped' when unloading
- MUST not be dragged along the ground when loading, unloading, or carrying, as it may result in damage
- MUST remain covered until it is time to be used for installation

HANDLING

Always exercise caution and care when lifting, and always check the weight on the label before attempting to lift an ULTIM8 Panel, board. Individual ULTIM8 HPX Panels, should always be carried by at least 2 people, wherever safe to do so. All relevant OH&S policies and practices should be observed.





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HIGH PERFORMANCE

MULTI-USE EXTERIOR PANELS

FABRICATION AND INSTALLATION



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Fabrication and Installation Guide

FABRICATION AND INSTALLATION GUIDE

ULTIM8 HPX Panels are quick and easy to fabricate and install. Please take the time to read the following guide to ensure performance of your product, before you begin fabricating and installing the HPX Panel materials.

IMPORTANT INFORMATION

We recommend the use of protective clothing and safety equipment as recommended by your local, state or federal regulations. Wearing equipment to protect eyes, nose and mouth from dust particles such as safety glasses, gloves, a dust mask and long sleeves is especially important when cutting and drilling is highly recommended.

ULTIM8 HPX Panels are approximately the same weight as timber-based panels.

Always exercise caution and care when lifting ULTIM8 HPX Panels. We recommend that ULTIM8 HPX Panels be safely handled by two people at any given time to follow safe working guidelines and avoid the possibility of injuries. The homeowner, contractor or installer is responsible for determining the specific requirements, effectiveness, suitability and safety in regards to any application or use of ULTIM8 HPX Panels products.

ULTIM8 HPX Panel, products must be installed correctly, ensuring compliance with all the relevant regulations and aspects of the Building Code of Australia, as well as relevant Australian Standards. (Countries outside of Australia please refer to your relevant National Building Codes and Standards).

Proper ventilation and air circulation around the ULTIM8 HPX Panels is necessary to facilitate the equilibration of the panels. Slight colour variations of the ULTIM8 HPX Panels occur in the same way natural timber does. The equilibrating process for ULTIM8 HPX Panels products will vary according to exposure to different climates, sunlight and moisture.

ULTIM8 HPX PANELS SHOULD NOT:

- Be used in exterior applications without a suitable exterior surfacing material being applied.
- Be surfaced with any non-warranted surfaces when used for exterior applications. Any surfacing materials used for exterior applications must be warranted by the surfacing material supplier against the effects of UV and weathering as per their usage guidelines.
- Be used in applications for dwellings or buildings of more than two levels (i.e. ground floor and first floor) as noted within Class 1a and Class 2 Buildings in the National Construction Code without appropriate approvals granted by relevant authorities.

DECORATION OF HPX PANELS

ULTIM8 HPX Panels is designed to be used as a substrate for decorative surfaces and finishes to be applied. When decorating with foils, films or laminates, please ensure that the decorative surface and the adhesive layer used are fit for purpose and suitable for the intended application. We strongly recommend the use of similar adhesive system and ecoar-tive materials on both faces of the HPX Panels to ensure panel stability. This needs to be warranted by the relevant surfacing or adhesive supplier company technical guidelines. When coating or sealing HPX Panels again please ensure that your chosen system is fit for the purpose intended. This should include the review of a test piece of HPX Panels that have been coated with the chosen coating or sealing system as recommended by the system supplier. For coating and sealing system recommendations, please contact MCX Materials.

CUTTING AND MACHINING

We recommend the use of blades and router bits that are suitable for cutting and machining plastic composite materials. Please consult a tools and blades supply specialist for advice.





INSTALLING AND FASTENING ULTIM8 HPX Panels

HPX Panels may expand and contract with changes in temperature as with all natural or plastic products in certain environments more than others. The ideal temperature condition for installing ULTIM8 HPX Panels is around 20°C. We recommend you store the HPX Panels boards in the installation environment for at least 48 hours before fabrication and installation, to allow the panels to equilibrate. Avoid drilling or screwing any closer than 8mm centres from the edge of the face of a HPX Panels using an appropriate wood panel screws.

STORAGE AND HANDLING

ULTIM8 HPX Panels must be:

- Supported at least every 600mm on a level surface
- Laid flat during storage or transportation and never at an angle
- Must not be dropped or 'dumped' when unloading or carrying to site
- Stored on a flat, dry surface and at least 100mm off the ground
- Remain covered until time of installation.

For detailed care and maintenance information, refer to the ULTIM8 HPX Panels care and Maintenance Guide available within this Technical Information Pack.

All information contained in this document was correct and current at the time of publishing and is subject to change. Visit the website for more information on gaps, spans and fixing specifications.





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CARE AND MAINTENANCE



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CARE AND MAINTENANCE

CARE AND MAINTENANCE

ULTIM8 HPX Panels is more resilient and requires less maintenance compared to timber based panels. This guide will provide you with the basic principles for care and maintenance of these panels to help maintain the performance of your ULTIM8 HPX Panels.

STANDARD CLEANING PROCESS

ULTIM8 HPX Panels are designed to be used as a substrate in its natural state or for decorative surfaces and finishes to be applied. Non-porous decorative surfaces or finishes are typically cleaned using warm water mixed with a mild detergent or non-bleach based cleaner. These should be applied and wiped clean using a microfibre cloth to ensure no damage occurs to the surface layer. Do not use abrasive or corrosive cleaning agents or cleaning materials. Always ensure that the care and maintenance guidelines of the surfacing material manufacturer are followed to ensure that warranty conditions are not voided.

SEMI-EXTERIOR AND EXTERIOR APPLICATIONS

ULTIM8 HPX Panels are a suitable substrate for semi-exterior and fully exterior applications such as alfresco and BBQ area cabinetry and paneling, pool areas, wall paneling and decorative screens. It must be ensured that all faces and edges of the ULTIM8 HPX Panels are fully sealed or decorated with an exterior-rated surfacing material that can withstand direct UV and weathering effects when using for such applications. Please ensure that the product suitability and application guidelines of the surfacing material manufacturer are followed to ensure that warranty terms and conditions are not voided. It is important that all faces and edges of the ULTIM8 HPX Panels are fully sealed or covered with an exterior-rated and warranted surfacing material, as failure to do so will lead to voiding of the ULTIM8 HPX product warranty.

GUIDELINES TO EXPOSURE OF CONSTANT WETTING

ULTIM8 HPX Panels have been designed to handle high humidity and constant wetting environments. However, it is not recommended that ULTIM8 HPX panels remain fully submerged in water. Any submersion of ULTIM8 HPX panels should be limited to a maximum continual time span of 12 hours, with adequate time allowed for the panel to dry before any subsequent submersion.



SUSTAINABILITY AND COMPLIANCE

SUSTAINABILITY CERTIFICATION AND COMPLIANCE

Building sustainable and healthy homes is the best way to maintain the fight against bacteria. Non-hazardous additives are used during manufacturing of ULTIM8 HPX Panels to create an anti bacterial protective shield. It is non-toxic, does not emit VOC emissions and is engineered to keep bacteria away. Our home is the sanctuary that we retreat to, so we must ensure it is a safe, secure and healthy space for our families.



CII has Certified ULTIM8 HPX Panels as a Sustainable Green Product and has awarded it a GreenPro ecolabel. A product which bears GreenPro Ecolabel has lower environment impact and con-tributes significantly to enhancing the performance of Green Buildings and Green Companies. GreenPro Ecolabel is accredited by Global Ecolabelling Network (GEN) through GENICES – GEN’s Internationally Coordinated Ecolabelling System.





ULTIM8[®] HPX PANELS

HIGH PERFORMANCE
MULTI-USE EXTERIOR PANELS
MANUFACTURERS
LIMITED WARRANTY



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Manufacturer's Limited Warranty

(Warranty Against Defects)

DEFINITIONS

“Purchaser” means any end user of the Products who purchased the Products for Residential Purposes.

“Product” means the product to which this Manufacturer's Warranty is attached. “Term” means the period of time stated on the label or packaging for that particular Product from the date of purchase from MCX or any Authorised Distributor. “Residential Purposes” means installation and use of the Product at residential premises in Australia.

Please refer to the following details regarding MCX Group Pty Ltd (“MCX”) warranty against defects. Subject to this warranty and the Warranty Claim Procedure, MCX warrants this product to be free of manufacturing or material defect for a term of twenty five (25) years for interior applications and exterior applications with a warranted exterior surface applied, from the time of purchase. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits of this warranty are in addition to any rights and remedies available under Australian State and Federal legislation that cannot be excluded. Nothing in this warranty is to be interpreted as excluding, restricting or modifying any State or Federal legislation applicable to the supply of goods and services, which cannot be excluded, restricted or modified.

WARRANTY

1. MCX will replace any defective product free of charge in the event that:
 - a. The product is used for Residential Purposes* only (*for warranted Commercial Purposes, please contact info@mcxmaterials.com), and;
 - b. The defect does not arise from:
 - i. Improper installation, maintenance or handling of the product and/or failure to abide by the MCX installation or maintenance guidelines, including but not limited to improper gapping;
 - ii. Use of the product contrary to local building regulations;
 - iii. Any act of God (including flooding, earthquake, lightning and any other natural occurring environmental or other disaster);
 - iv. Staining from foreign substances (including dirt, grease, oil and any other substance);
 - v. Normal expected exposure to natural elements, including but not limited to mildew or mould;
 - vi. Gradual discolouration (including, but not limited to, fading and staining);
 - vii. Ordinary wear and tear;
 - viii. Minor splits or cracking around screws
2. Where a defect in a product arises due to mould or mildew, the term of the warranty will be limited to twenty five (25) years irrespective of any previous warranty, but not excluding any warranty under the Australian Consumer Law.
3. This warranty is not transferable; it applies only to the consumer that purchased the product from the retailer or manufacturer (“Purchaser”).
4. MCX reserves the right to replace defective parts of the product with parts and components of similar quality, grade and composition where an identical part or component is not available.



WARRANTY CLAIM

PROCEDURE - In order to claim a warranty on any of MCX's products you must follow the procedure outlined below:

5. Send written notification to the place of purchase within 30 days from the discovery of the alleged defect, including the following details:
 - a. A clear description of the alleged defect;
 - b. Photographs of the alleged defect;
 - c. Quantity claimed to be defective;
 - d. Proof of original receipt (or other evidence displaying the date of purchase which MCX is reasonably satisfied with)

6. Upon receipt of this information MCX will work with the purchaser or the distributor to investigate the claim. Any and all investigations will seek to establish the cause of the claim in a timely manner.

7. At any time in the investigation MCX may request the assistance of engineers, scientists or any other party MCX deems appropriate to verify the claim. If the claim is proven, MCX, at its discretion will repair or replace the product on a case-by-case basis or alternatively provide a refund for the quantity found to be defective.

WARRANTY EXCLUSIONS

8. This warranty against manufacturing defects does not extend to cover:
 - a. Costs associated to remove the defective product from the purchaser's premises or the location of the product;
 - b. Any charges incurred by the Purchaser in returning any defective product to MCX or in notifying MCX of the alleged defective product;
 - c. Costs associated to installing any replacement product;
 - d. Costs associated with making a warranty claim, including costs such as postage and handling;
 - e. Any other reasonably foreseeable costs incurred,
 - f. Any changes in colour or appearance of the product due to climatic effects.

9. ULTIM8 HPX Panels are made by combining agricultural residue fibres and plastic materials. Whilst every care is taken to ensure consistency, natural and immaterial variances may occur from one board to the other in appearance and performance. Natural and immaterial variances are not a fault of the product and, accordingly, no warranty is provided in respect of any such variation.

10. MCX or any of its affiliated employees or agents will not be liable for any special, indirect or consequential loss or damage arising out of the use of, or handling of any MCX product whatsoever, including any special, indirect or consequential loss or damage suffered as a result of the negligence of MCX, except those which cannot be excluded under the Australian Consumer Law or applicable State, Territory or Federal laws.

Contact MCX Group Pty Ltd:

Level 2,1 Southbank Blvd, Southbank, Victoria, Australia, 3006
Phone: +61 3 9982 4456



ULTIM8[®] HPX PANELS

**HIGH PERFORMANCE
MULTI-USE EXTERIOR PANELS
SAFETY DATA SHEET | RoHS**



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SAFETY DATA SHEET

Trade Name : HPX Panels

1. Identification of the Company/Undertaking with full address
MCX Group Pty Ltd
Level 2, Southbank Blvd
Southbank,
Victoria, Australia, 3006.

2. Identification of composition

Composite material made by using agricultural husk of rice, minerals PVC resin, processing additives - Propriety Formulation

3. Hazards Identification

No Known Hazards

4. FIRST AID MEASURES

- Medical Aid : not necessary
- Routes of exposure : in case of sawing, if the dust particles hit the eyes, wash eyes with water
- Symptoms / effects : none

5. ACCIDENTAL RELEASE MEASURES

- Person related measures : none
- Environmental protection : none
- Cleaning equipment : not necessary
- Unsuitable cleaning products : not known

6. FIRE FIGHTING MEASURES

- In case of fire, using gas mask and self breathing apparatus is suggested
- Water or any general fire extinguishers may be use
- Hazard warning : Not applicable

7. HANDLING AND STORAGE

- Handling : See handling and storage guide / no special regulations
- Storage : See handling and storage guide / no special conditions





SAFETY DATA SHEET

8. EXPOSURE / PROTECTION

- Respiratory protection : not required- Dust mask recommended
- Eye protection : wear eye protection when cutting or processing
- Body protection : not required

9. PHYSICAL PROPERTIES

- Appearance : Solid board
- Colour : Brown
- Odour : Natural
- Density : **800** Kg/M3 and higher

10. STABILITY

- Thermal decomposition : Above 200 Degrees Celcius
- Hazardous decomposition : releases chloride gases when burnt, others : unknown
- Use of Stabilizers : Lead free stabilizers used

11. TOXIC INFORMATION

- No Known Hazrds

12. ECOLOGICAL INFORMATION

- Not bio-degradable
- Not water soluble
- No hazards to the environment

13. DISPOSAL OF GOODS

Can be recycled and reprocessed

14. TRANSPORTATION REGULATIONS

- Not required

15. REGULATORY INFORMATION

- No obligation for marking

16. DECLARATION

This information solely describes the safety requirements of the product and based on our current state of knowledge. It does not give any assurance concerning the products describing withing the statutory warranty regulations



RoHS (Restriction of Hazardous Substances)

TEST REPORT SUMMARY

Test/Parameter	Method	Result	Unit
DISCIPLINE: CHEMICAL			
Propyl Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
1,1,1,2-Tetrachloroethane	EPA : 5035A (by GCMS)	BDL	mg/kg
1,1,1-Tri Chloro Ethane	EPA : 5035A (by GCMS)	BDL	mg/kg
1,1,2,2-Tetra Chloro Ethane	EPA : 5035A (by GCMS)	BDL	mg/kg
1,1,2-Tri Chloro Ethane	EPA : 5035A (by GCMS)	BDL	mg/kg
1,1-DiChloro Ethane	EPA : 5035A (by GCMS)	BDL	mg/kg
1,1-DiChloro Ethene	EPA : 5035A (by GCMS)	BDL	mg/kg
1,1-Dichloropropane	EPA : 5035A (by GCMS)	BDL	mg/kg
1,2,3-Tri Chloro Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
1,2,3-Tri Chloro Propane	EPA : 5035A (by GCMS)	BDL	mg/kg
1,2,4-Tri Chloro Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
1,2,4-Tri Methyl Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
1,2-Di Chloro Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
1,2-Dibromo-3-chloro Propane	EPA : 5035A (by GCMS)	BDL	mg/kg
1,2-Dibromo-Methane	EPA : 5035A (by GCMS)	BDL	mg/kg
1,2-DiChloro Ethane	EPA : 5035A (by GCMS)	BDL	mg/kg
1,2-DiChloro Propane	EPA : 5035A (by GCMS)	BDL	mg/kg
1,3,5-Tri Methyl Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
1,3-DiChloro Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
1,3-Dichloropropane	EPA : 5035A (by GCMS)	BDL	mg/kg

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Test/Parameter	Method	Result	Unit
1,4-DiChloro Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
2,2-Dichloropropane	EPA : 5035A (by GCMS)	BDL	mg/kg
2-Chloro Toluene	EPA : 5035A (by GCMS)	BDL	mg/kg
4-Chloro Toluene	EPA : 5035A (by GCMS)	BDL	mg/kg
4-Iso Propyl Toluene	EPA : 5035A (by GCMS)	BDL	mg/kg
Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
Bromo Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
Bromo Chloro Methane	EPA : 5035A (by GCMS)	BDL	mg/kg
Bromo Dichloro Methane	EPA : 5035A (by GCMS)	BDL	mg/kg
Bromoform	EPA : 5035A (by GCMS)	BDL	mg/kg
Bromomethane	EPA : 5035A (by GCMS)	BDL	mg/kg
Carbon Tetra Chloride	EPA : 5035A (by GCMS)	BDL	mg/kg
Chloro Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
Chloro Ethane	EPA : 5035A (by GCMS)	BDL	mg/kg
Chloro Methane	EPA : 5035A (by GCMS)	BDL	mg/kg
Chloroform	EPA : 5035A (by GCMS)	BDL	mg/kg
CIS-1,2-DiChloro Ethene	EPA : 5035A (by GCMS)	BDL	mg/kg
Cis1,3-Dichloropropene	EPA : 5035A (by GCMS)	BDL	mg/kg
Dibromochloro Methane	EPA : 5035A (by GCMS)	BDL	mg/kg
Dibromo-Methane	EPA : 5035A (by GCMS)	BDL	mg/kg
Dichloro Methane	EPA : 5035A (by GCMS)	BDL	mg/kg
Dichlorodifluoromethane	EPA : 5035A (by GCMS)	BDL	mg/kg
Ethyl Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
Hexachloro1,3Butadiene	EPA : 5035A (by GCMS)	BDL	mg/kg
Iso Propyl Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
Methyl isobutyl ketone	EPA : 5035A (by GCMS)	BDL	mg/kg
m-Xylene	EPA : 5035A (by GCMS)	BDL	mg/kg
Napthalene	EPA : 5035A (by GCMS)	BDL	mg/kg
n-Butyl Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
p-Xylene	EPA : 5035A (by GCMS)	BDL	mg/kg
Sec-Propylbenzene	EPA : 5035A (by GCMS)	BDL	mg/kg
Styrene	EPA : 5035A (by GCMS)	BDL	mg/kg
Ter-Butyl Benzene	EPA : 5035A (by GCMS)	BDL	mg/kg
Tetra Chloro Ethane	EPA : 5035A (by GCMS)	BDL	mg/kg
Toluene	EPA : 5035A (by GCMS)	BDL	mg/kg
Trans-1,2-DiChloro Ethene	EPA : 5035A (by GCMS)	BDL	mg/kg
Trans1,3-Dichloropropene	EPA : 5035A (by GCMS)	BDL	mg/kg
Trichloro Ethylene	EPA : 5035A (by GCMS)	BDL	mg/kg
Trichlorofluoromethane	EPA : 5035A (by GCMS)	BDL	mg/kg
Xylene	EPA : 5035A (by GCMS)	BDL	mg/kg

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Test/Parameter	Method	Result	Unit
vinylchloride	EPA : 5035A (by GCMS)	BDL	mg/kg
Volatile Organic Compound	EPA : 5035A (by GCMS)	BDL	mg/kg

Remark : BDL:BELOW DETECTABLE LIMIT; DL:DETECTION LIMIT: 1.0 mg/kg



ULTIM8 HPX PANELS



ULTIM8 MATERIALS

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