

User's safety data sheet

BETONWOOD® CEMENT BONDED PARTICLE BOARDS

1. Product and company identification

1.1 Product description:

Cement bonded particle boards called BetonWood® are pressed from woods chips and other additives with cement bound, they have a smoothed surface and a 1.350 kg/m³ density.

Vengono distribuiti in lastre delle seguenti dimensioni (mm):

3200 x 1250; 2800 x 1250; 1220 x 520.

Spessori disponibili (mm):

8, 10, 12, 14, 16, 18, 20, 24, 28, 32, 36, 40.

1.2 Utilizzi del prodotto:

construction industry, building, light building, thermal and acoustic insulation.

1.3 Company:

BetonWood®

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2. Composition/data on the components

Chemical features: It is a board pressed from woods chips and other additives with cement bound.

Composition	weight	volume
• wood chips (natural material)	18,6 m/m %	58,13 %
• CEM I 42,5 Portland cement	73,0 m/m %	31,23 %
• natron water glass	0,9 m/m %	0,51 %
• water	7,5 m/m %	10,13 %

Hazardous materials: No. It is not compulsory to label the product.

3. Hazard categories, possible risks

In line with 44/2000. (XI.8) EUM decree on "Procedures related to hazardous materials and hazardous preparations", the product is not a hazardous product.

Special risks on human (inhalation, skin and eye irritation, swallowing and other chronic symptoms):

Processing (sawing) is Xi irritative R 36 / 38 , R 43.

Special hazards on the environment: no

Other hazards: no

4. First aid

In case of inhalation:	Injured person shall be moved to fresh air
Skin irritation:	In case of contact with skin wash it with water.
Eye irritation:	In case of contact with eye, it shall be washed thoroughly
Swallowing:	no

5. Fire protection

Fire-hazard property:	European class of fire reaction A2fl-S1 not hazardous.
Appropriate extinguishing agent:	Extinguishing agent appropriate for the fire and for the environment shall be used. Water, extinguishing powder, fire foam
Extinguishing agent which can not be used for safety purposes:	no
Risk posed by the material or the gases generated during burning:	Carbon monoxide, carbon dioxide and gases containing nitrogen might be generated
Protective clothing in case of burning:	in case of fire a mask shall be worn to protect against the above mentioned gases

6. Precautions in case of an accident

Personal precautions:	it is recommended to use gloves, it is compulsory to wear goggles and mask. General labour safety rules shall be observed.
Environmental precautions:	the generated dust shall not get into water and drains because of the alkalinity of the cement.
Cleaning procedure:	dust generated during processing shall be collected.

7. Handling, storing

Handling:	during processing-never bright work or sawing-one can inhale the cement dust. It is strictly forbidden to smoke, proper ventilation shall be ensured; the dust shall be removed from the working area.
Storing:	products can be stacked on dry, well ventilated areas, where proper support is ensured. Product is not inflammable, therefore it can be stored together with other products
Material compatibility:	the product is compatible with every other materials.

8. Conditions of the work not risking human health

According to the 25/2000 (IX, 30) EUM-SZCSM standard on the chemical safety of work places shall be considered.

Supplementary information for industrial equipments: equipments with which the products are processed, for example saw, grinding machine, etc. shall have local suction.

Respiration protection:	mask shall be worn if dust is generated.
Gloves:	recommended to wear.
Eye protection:	during material processing it is recommended to wear eye protection
Body protection:	recommended to wear protective clothing

Stipulation of the general labour protection rules shall be applied for other cases.

9. Physical and chemical features

Appearance:	solid
Color:	surface has the colour of the cement
Smell:	no smell
Melting point:	not applicable
Boiling point:	not applicable
Flashing point:	not applicable
Spontaneous combustion:	spontaneous combustion
Risk of explosion:	not applicable
Thickness (mm):	8 - 40
Density (kg/m ³):	above 1.200
Dimensional tolerance (mm):	
• thickness on refined sheet:	+/- 0,3
• thickness on not refined sheet:	< 12 +/- 0,7 > 12-15 +/- 1,0 > 15-18 +/- 1,2 < 18 +/- 1,5
• length and width:	+/- 5,0
Moistness:	6% - 12%
Bending endurance (N/mm ²):	≥ 9,0
Board lifting stability (N/mm ²):	≥ 0,5
Expansions of thickness in 24 hours:	1,5%
Flexibility modulus (N/mm ²):	min. 4.500
Coefficient of thermal conduction (W/mK):	0,26 W/mK
Coefficient of thermal expansion:	1 x 10 ⁻³ /K
Antifreezing property:	no visible changes
Airborne sound protection:	30dB in case of 12 mm thick board
Surface PH value:	10 - 11

Other physical features, such as viscosity, freezing point, drip point, etc, are not applicable in case of this product.

10. Stability and reactivity

Stability data: the product is stable from chemical point of view and can be used with any other materials.

Conditions to be avoided: The product shall be stored on dry, well ventilated place.

Materials to be avoided: strong acids and alkali solutions and oxidants as these materials might damage the product.

Hazardous breakdown products: no

Hazardous emissions: no

11. Toxicological data:

Acute toxicity: not applicable

Oral toxicity: -

Eye and skin irritation: not known

Sensitivity: not known

Chronic toxicity: -

Other information: Product is free from heavy metals and solvents, hazardous materials such as ethynyl trichloride, benzene, toluol, carboic acid, asbestos, CFC, PVC, HFC, PCP, etc. can not be found in the product.

12. Data for ecology

Eco-toxic effects: product can not get into waters uncontrolled because of the PH value.

13. Waste material treatment and disposal

Disposal method: based on the Hungarian and the UE laws, the waste materials are not hazardous.

Waste material used can be classified as building rubbish.

Local and international regulations: in case of material disposal the local legal regulations in force shall be observed.

14. Transportation data

According to the international transportation regulations, the product is not hazardous.

Product labeling is not needed.

15. Regulations

Labeling:

Symbols of hazards: it is not obligatory to label the product, despite these we propose. According to the CE 25/2000 (IX.30.) classification and to the hazardous materials decrees:

R - sentences	R 36 - Eye irritating
	R38 - Skin irritating
	R43 - Skin contact might cause skin irritation

S - sentences	S22 - Dust of the product shall not be respirated
	S25 - Contact with skin shall be avoided

16. Further safety regulations

Date of the present data sheet are referring only to the product indicated on the data sheet.

These data are not valid anymore, if the product is processed together with other materials. Data of the data sheet are in line with our best knowledge on the date of delivery. Final user shall make it sure that all the statements are appropriate and enough for the final use.

Legal regulations in force shall be observed during processing and use.

According to the standards 96/61/CE - 2000/60/CE - 91/689/CEE - 94/62/CE - 84/360/CEE - 2004/35/CE

Compiled in accordance with Annex II of Regulation (EC) No 1907/2006, concerning the registration, evaluation, authorization and restriction of chemical substances (REACH)