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PRODUCT TECHNICAL SHEET

GreenBond P2

Application

GreenBond P2 is a resin used as a binder for gluing many materials, especially wood and wood products and, above all, all kinds of attachment plates, fiberboard and plywood, but also all other materials containing lignocelluloses, such as hemp, flax, straw and paper as well as solids.

In this form GreenBond P2 was developed as a binder containing no formaldehyde for all areas of internal use. GreenBond P2 resin has hydroxyaldehydes polycondensed ammonium salt and may be supplemented depending on the application or the product requirements with other suitable components of binders, which are all natural and are also within the scope of renewable raw materials.

Properties and notes on processing

The binder is generally designed as one component and does not contain organic solvents and solidifies at temperatures $> 100^{\circ}\text{C}$ as in the case of duroplasts.

The GreenBond P2 binder is composed of natural products and may also contain other ingredients in order to improve its properties. Due to the high water solubility in an unhardened condition it can be easily cleaned from working appliances, items of clothing and also from affected parts of the skin by immediate rinsing with water. If needed, the binder can be diluted with water or simply its viscosity can be increased using conventional thickeners such as wheat flour type 405, as applicable in the case of ordinary urea resin. As the GreenBond P2 binder has a substantially neutral pH value, skin irritation occur only in sensitive individuals. At this point, we draw attention to our safety data sheet.

The binder can be applied by all commonly used methods for the materials to be bonded, for example, from the brush, roller, paint spray gun with a compressed air spray gun or airless spray, roll, spray systems of the mixing blade to the so called Blow Line.

Information about the product

Colour:	dark brown
Solids content:	about 50 in weight %
Phase of matter:	liquid
Viscosity at 20°C:	400 +/- 100 Pa*s (Haake R4, 100 UpM)
Density at 20°C:	1,1 +/- 0,1 g/ cm ³ (DIN 53 597)
Odour:	light odour of malt
pH value:	5,5 – 7,0

Storage

Unlimited stability of the adhesive is kept at a storage temperature of between + 5 ° C and + 30 ° C for at least six months. Also short periods of frost do not weaken the strength of the adhesive. To avoid the formation of so-called "sludge" as well as the possible formation of a partial solid after long non-use, it is recommended, on one hand, to store the adhesive in closed containers, and on the other, stir it well before each use.

Sewage and environmental protection

Although the product has a neutral pH value, avoid the leakage of large amounts to the groundwater. Further information can be found in the corresponding safety data sheet.

Personal protective equipment

Due to the adhesive properties of the binder protect your eyes and mucous membranes. In case of contact with the resin, rinse thoroughly with water, if symptoms persist, consult a doctor.

Mixture

1000 kg IBC or cistern. Additional amounts at the request.

Manufacturer's notes

The information contained in this data sheet is the result our knowledge and experience. It is based on our best knowledge and is intended to provide information to our customers. It is, however, non-binding. The clues given herein are based on the results of experiments conducted carefully by us. In each case, they do no substitute, however, preliminary tests which are necessary for the intended use of the product.

We reserve the right to make changes in the framework of technical progress or further development of the product in a commercial environment.