



# environmental fact sheet

## formakote screenboard

### **Carter Holt Harvey, Hamilton - New Zealand**

Carter Holt Harvey is New Zealand's largest manufacturer of fibre-based packaging materials. The Fomakote™ Screenboard range is dedicated to the point of sale screen printing market.

### **Fibre Source**

Virgin wood fibre is sourced from forest thinnings and sustainable plantation forests working within the Packaging Covenant or FSC. 45% of the pasted filler is recycled, and only paperboard from pre-production board trimmings are used to ensure hygiene standards are met within the EPA regulations.

### **Bleaching**

Groundwood pulp used in the production of paperboard are mostly unbleached. Some groundwood for high quality board is bleached with Sodium Hydrosulphide, the most environmentally safe bleach commercially available. Bleach liner pulp bought into the mill is Elementally Chlorine Free (ECF) giving an almost zero AOX.

### **Disposal of Waste By-Products**

Solid wastes removed from the effluent is recycled and used for the manufacture of egg cartons, worm farms, added to other effluent to make compost, and used by Local Council for top cover on the local landfill. Woodwaste and other timber waste is chipped and used to generate steam and electricity at the mill. (This is a carbon neutral energy production method minimizing global warming).

### **Waste to energy**

Carter Holt Harvey is New Zealand's largest bioenergy user, with 60% of all energy used in the company derived from biomass. CHH Biogrid supply biofuel to industrial heat users. Biofuel is burned to produce steam and (potentially) electricity through co-generation. 'Carbon neutral' bioenergy occurs when the quantity of CO<sub>2</sub> released back into the atmosphere during burning is equal to the CO<sub>2</sub> absorbed by the tree during its growth.

### **Nothing goes to waste**

CHH Ecopine and CHH Radius operate sawmills in New Zealand and Australia. They use radiata pine for manufacturing timber and plywood for building products. CHH Whakatane use the thinner top of the trees and slabs from the sawmills for either chemical or mechanical pulp production. In addition, they utilise any wood waste produced at CHH Ecopine's sawmills or on site (wood chips, sawdust, and bark) for energy production. CHH Biogrid utilise all kinds of wood waste (sawdust, shavings, bark, chips, logyard scrapings) as a fuel source to produce renewable energy

### **Recycling of pre-consumer (non-used) waste**

Carter Holt Harvey's production sites recycle wastepaper from convertors who assemble the cartons and boxes. This waste has not been utilised by consumers and is therefore classified as 'clean waste'.

### **Paper Mill Effluent**

Water used is suitably treated and in most cases returned to source in a better condition than when removed, in accordance with strict environmental consent conditions.