



-Roof Shingling- **Waste Reduction Fact Sheet**

GENERAL TIPS

- ◆ Make it policy to purchase products with recycled content, and/or materials which are durable, refillable, reusable or at least recyclable.
- ◆ Promote your 3Rs initiatives. Tell your customers what you are doing and how it is helping the environment.
- ◆ Investigate alternative uses for materials/containers which have expired or can no longer be used, before properly disposing of them.
- ◆ Familiarize staff with the proper operation of equipment to minimize waste created through misuse. Develop, schedule and record proper preventative and corrective maintenance practices for all equipment used on-site.
- ◆ Work with suppliers to ship materials with no, or reusable or recyclable containers/packaging.
- ◆ Implement a "first-in, first-out" inventory system to use oldest stock first, particularly for products with a limited shelf life.
- ◆ Whenever possible, substitute hazardous materials with non-hazardous alternatives such as replacing solvent-based glues and cleaners with water-based products.
- ◆ Get all employees involved in your waste reduction efforts. Keep them informed of the goals and objectives of your program and set up a staff waste reduction committee.

In order to achieve the target of at least 60% diversion of waste from disposal by 2008, the Province of Ontario has passed regulations requiring specific waste generators to conduct waste audits, develop waste reduction workplans and source separate recyclable materials. Details of Ontario's 3Rs Regulations and guides on audits and workplans can be found on the Ministry of the Environment's website, www.ene.gov.on.ca/pic.htm.

Many companies have already instituted waste reduction programs knowing that the financial benefits to their business would be substantial. These benefits come in the form of reduced disposal charges, lower supply cost and an enhanced corporate image. In general, waste reduction is a means of achieving a higher degree of efficiency in your operation.

This fact sheet and others in the series have been developed by the Association of Municipal Recycling Coordinators (AMRC), and funded by the Province of Ontario, to assist you in your waste diversion efforts. The tips given here are by no means a complete list of possible reduction methods, but they will provide a solid basis for beginning a waste diversion program.

REDUCE

- ◆ Encourage customers to use longer-life shingles that can last 30 to 35 years.
- ◆ Implement proper housekeeping procedures such as properly stacking raw materials so that they are not damaged, keeping lids on adhesives to reduce evaporation, and using polyethylene covers to reduce warping when storing materials outdoors.
- ◆ Encourage staff to bring "litterless" lunches and supply their own coffee mugs.
- ◆ Keep unused adhesives, nails and materials for future jobs.
- ◆ Set up a return to vendor (or refund) system with your suppliers for all unused materials.
- ◆ Accurately determine the amount of material required for a job before purchasing it.
- ◆ Only purchase raw materials when needed and in bulk or in the appropriate-sized container.

REUSE

- ◆ Purchase and keep used materials for lower-grade applications.
- ◆ Find local establishments such as schools, reuse depots and charitable organizations who will reuse old equipment and off-spec or leftover materials.
- ◆ Repair old or broken equipment and/or purchase used items such as tools and furniture instead of buying new ones.
- ◆ If suppliers will not take back containers or packaging materials (e.g. pails and pallets) try other suppliers or examine other methods of reusing or recycling the material (e.g. local waste reuse/exchange program).
- ◆ Reuse metal stripping in reroofing operations where feasible.
- ◆ Clean and save adhesive pails for other uses.

RECYCLE

- ◆ Encourage the development of recycling programs or markets for those materials not currently accepted such as asphalt shingles.
- ◆ Support recycling efforts by purchasing materials containing recycled materials such as paper, shingles made from recycled fibres, and plastic roof planks made from recycled plastics.
- ◆ Segregate all waste materials to minimize contamination and increase their recycling potential.
- ◆ Talk to your municipality, hauler or local recycling company about setting up a recycling program for all solid non-hazardous wastes including fine paper, cardboard, plastics, glass and wood (including wood shingles and sawdust). Or encourage employees to take blue box materials home.

FOR ADDITIONAL INFORMATION

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*Your
Local Municipality*

This publication is part of a series of Waste Reduction Fact sheets that are available from your local municipality. Additional Fact Sheets can be obtained on a variety of industrial, commercial and institutional sectors (automotive, commercial printing, etc.), and various business operations (e.g. offices, cafeterias and lunch rooms, etc.). Please contact your local municipality for more information.

We would like to thank the Alberta Environmental Protection Waste Minimization Branch for their input into this fact sheet.

