

## **TGL-32-01**

### **Roof tile Paints**

Roof tile paints are products applied as a coating of roof tiles. The components of roof tile paints can be categorized as pigments; solvents; fixing agents and additives which may contain the heavy metal formaldehyde, volatile organic compounds and organic solvents. These substances and their vapors can be released into the atmosphere during the application processes and be extremely irritant for humans. As well when they are constantly inhaled they accumulate and have a long-term effect on human health.

To regulate roof tile paints as green label products it must be required that no heavy metals organic solvents or volatile organic compounds be added as components in the product to reduce the emission of pollutants into the environment.

#### Category Definition

The category includes acrylic paint, which is an emulsion of acrylic resin for coating cement-asbestos roof tiles.

#### Green Label Requirements

To be authorized to carry the Green Label, a product must meet both the general requirements and the specific requirements as follows;

##### *A. General Requirements*

The products must:

1. Be certified to the Thai Industrial Standard TISI 1097, *Standard for cement-asbestos roof tile acrylic Paint.*
2. Be manufactured, transported and disposed in a manner meeting requirements of all applicable governmental acts and regulations such as Factory Acts of Ministry of Industry.
3. Have correct and appropriate instruction manuals available for use, and this fact should be clearly marked on the package.

##### *B. Product Specific Requirements*

1. The pigment powder used in the product must not be formulated with lead mercury cadmium hexavalent chromium or its oxide in the production process (acceptable allowance of contaminant must not exceed than 0.01 mg/l).
2. The product must not be formulated with volatile organic compounds in excess of 100 g/l.
3. The product must not be formulated with solvent which includes; aromatic hydrocarbon solvents halogenated solvent and formaldehyde in the process.
4. The product must not be formulated with ammonia or ammonia compounds in excess of 2% by weight of product.
  - Organic compounds in excess of 150 g/L.
5. The type and content of the plastic materials used in the packaging shall be marked for recycling.