

CHAPTER 1 - MATERIALS AND RESOURCES

700

701.04 LEAD OR HEAVY METALS CONTAINING MATERIALS



INTENT

Regulating use of heavy metal content in building materials to prevent the health impacts associated with exposure to heavy metals.

REQUIREMENT

For all new buildings and for the maintenance, addition or alteration of existing buildings, paints or other materials that may contain percentage of lead or other heavy metals that is more than the prescribed limits set by Dubai Municipality, must not be used, unless the metal is encapsulated in systems such as a photovoltaic cell.

All paints and materials containing lead or other heavy metals must be accredited / certified from Dubai Central Laboratory or any source approved by Dubai Municipality.

SIGNIFICANCE

Lead is a naturally occurring heavy metal found in small amounts in the earth's crust. Lead and lead compounds had been used in a wide variety of building products including paints, ceramics, pipes and plumbing materials, solders, gasoline, batteries and cosmetics.

Lead-based paint is a major source of lead poisoning for children and can also have effect on adults. In children, lead poisoning can cause irreversible brain damage and can severely impair mental and physical development. In adults, it can also have serious impacts, such as poor muscle coordination, nerve damage, reproduction problems and increased blood pressure. Improper attempts to remove lead paint or other products containing lead can also release lead dust, fumes, or chips, thereby exposing occupants to these health risks. Other heavy metals such as cadmium, chromium VI, mercury and arsenic can also cause severe health impacts.

By reducing or eliminating paints or materials that contain lead and other heavy metals, human exposure and associated health impacts from these materials can be prevented.

APPLICABILITY

This regulation is applicable to all building types. Refer to Table 101.07(1) in Section One - Administration for detailed applicability levels.