

Building Materials
Lect. Harish Gupta
Inst. Kuldeep
Department of Architecture
Govt. Polytechnic Panchkula

Lecture
Ceiling Materials

Asbestos Tiles :-



Asbestos is a term used to refer to six naturally occurring silicate minerals. All are composed of long and thin fibrous crystals, each fiber being composed of many microscopic 'fibrils' that can be released into

the atmosphere by abrasion and other processes. Asbestos is an excellent electrical insulator and is highly heat-resistant, so for many years it was used as a building material.

In floor **tiles**, **asbestos** is used primarily for its insulation properties and its ability to resist fire. In addition to the **tiles** themselves, a layer of mastic (a type of adhesive) below the **tiles** is also likely to contain **asbestos**.

Material uses in Asbestos Tile :-

- Asbestos - 5 - 25%
- Binder - 15 - 20%
- Limestone - 53 - 73% [note that some products used asbestos powder as filler]
- Plasticizer - 5%
- Stabilizer - 1 - 2%
- Pigment - 0.5 - 5%

Sizes :-

9" x 9"

12" x 12"

18" x 18"

Uses

Asbestos Tiles are one of the most versatile building materials.

They are used for walls and flooring, Bathroom, counter, exterior, backsplash.

We can **use** them for decoration, protection, or other less common **applications**.

Since they are light and easy to install, anyone can work with **tile** for a wide range of home improvements.