



# Central Building Research Institute Roorkee

## Polytiles



- Application & Uses:** Suitable for floors and walls of residential, commercial and industrial buildings.
- Salient Technical Features:** Excellent chemical resistance and durability, high mechanical strength and wear resistance, low porosity, aesthetically pleasing and cost effective.
- Environmental Aspect:** No adverse effect on the environment.
- Level/Scale of :  
Development** Laboratory scale.
- Status of Commercialisation:** Process know-how is ready for commercialisation.
- Major Components/  
Raw Materials** Binder: An interpolymer complex based on epoxy, phenolic, ketonic resin etc.  
Aggregate: Chemically inert siliceous aggregate and powders and chemically inert coloring materials.
- Major Plant Equipment:  
and Machinery** Mixer, blender, hydraulic hot press, moulds, polishing equipment.
- Techno-Economics:** For polytiles a cost effective better performing interpolymer complex is used as a binding material for chemically inert filling materials. In this the amount of interpolymer complex resin is less than the amount of resin in epoxycrete hence it is cheaper. The mechanical properties and wear resistance is superior as compared to epoxycrete. The cost lies between Rs.50-75/- per sq.ft. depending upon the type and texture.
- Technology Package:** Complete design and construction know-how.

**For further details please contact :**

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