

Granite

This is best quality flooring, walling, and also having adaptability in different areas of human life nowadays. This material is widely used for floor and wall cladding in commercial centers, banks, hotels and luxury bungalow in India. Slabs in 18mm - 30mm and as per customer required thickness available. Granite countertops in 30mm thickness, tabletops in varied thickness are nowadays getting more and more exported from India.

Demerits:

- Highly affected to acidic reactions and hence not recommended in area of acid zones.
- In Some cases can be considered slippery surface especially in wet areas.
- Generally not preferred by major customer segment for bulk usage being a costly material.
- Fixing is expensive in comparison of other stones.

Best Application:

- Polished tiles are best suited for class flooring in premium customer segment.
- Natural and flamed finished versions are also used for walling and other applications.
- Polished slabs can be considered as best suited for cupboard shelves, Kitchen cabinet shelves, vertical fascias.
- Granites are widely used as Kitchen counter tops being a neat and hygienic surface.
- Exclusive table tops and unmatched interior decoration by way of application in different furniture.
- Granite column and hollow pipe can be used as supporting column of building eliminating concrete.
- Granite articles can be really considered as best handicraft.
- Granite Fountains, Funerary monuments, doors window frames are few of the best application.

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Specification: Granite

Physically, commercial granites are Hard, Compact rocks with fine to coarse grains of metamorphic or igneous origin.

Hardness:	6 to 7 on Moh's Scale
Density:	2.6 to 2.8 Kg/cm ³
Compressive Strength:	140 to 210 N/mm ²
Modulus of Rupture:	15 to 25 N/mm ²
Water Absorption:	0.1-0.6%
Average Wear:	Less then 1%
Porosity:	Quite low
Weather Impact:	Resistant

Chemically, they are igneous/metamorphic rocks composed of quartz, feldspar & ferromagnesian minerals like krialite, chlorite, garnet, etc. A typical granite will have following chemical composition:

Silica (SiO₂):	70-75%
Al₂O₃:	10-15%
CaO+MgO:	Less then 0.5%
FeO + Fe₂O₃:	2-4%
Alkalies:	4-6%
TiO₂:	Less then 0.5%
Loss On Ignition (LOI):	Less then 0.5%