Kotah Stone (Limestone)

Widely accepted flooring/cladding Stone. Available in slabs, tiles, counters in ordinary machine polished surface as well as mirror-polished surface. Polished tiles and natural surface is very much accepted in world market. Its inherent characteristics are specific strength and unmatched workability. It has one peculiarity of getting shine upon usage. It can resist impact better than marble and hence widely used in commercial and industrial floors. Being a natural material there will be little percentage of minor shade variation.

Demerits

❖ Highly affected to acidic reactions and hence not recommended in area of acid zones.

❖ Getting more and more polished upon usage is some times not preferable as non slippery flooring option, especially in wet areas.

❖ Generally not preferred by premium class customer segment as it is having a colour variation in polished version giving less elegance.

Best Application

❖ Polished tiles are best suited for optimally economical flooring in its segment.

❖ Natural calibrated tiles shall be used for walling, roofing, courtyard pavements.

❖ Polished slabs can be considered as best suited for cupboard shelves, Kitchen cabinet shelves, and vertical fascias.

❖ Making granite and marbles/ copper, brass strips in between two slabs of this stone can create Multi colour flooring.

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Specifications

Physically, Limestones are Quite impervious, Hard, Compact, fine to very fine-grained calcareous rocks of sedimentary nature.

Hardness:	3 to 4 on Moh's Scale
Density:	2.5 to 2.7 Kg/cm^3
Compressive Strength:	60-170 N/mm^2
Water Absorption:	Less than 1%
Porosity:	Quite low
Weather Impact:	Resistant

Chemically, they are calcareous rocks principally of calcic minerals with minor amounts of alumina, ferric & alkaline oxides.

Lime (CaO) :	38-42%
Silica (SiO$_2$) :	15-18%
Alumina (Al$_2$O$_3$) :	3-5%
MgO:	0.5 to 3%
FeO + Fe$_2$O$_3$:	1-1.5%
Alkalies:	1-1.5%
Loss On Ignition (LOI) :	30-32%