

# A Unique Approach of Concrete in Futuristic Material

Suryansh Agarwal

Student, Poornima University, Jaipur (India)

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### Corresponding Author

Email: [suryansh.agarwal914\[at\]gmail.com](mailto:suryansh.agarwal914[at]gmail.com)

## ABSTRACT

Materials plays the very important role in interior design. Materials affects the total ambience of the interior. The finish, texture, and looking all depends on the material we are choosing for our interior. Also, the sustainability depends upon the material we are using. And it's also affects the total coasting.

As we talk about concrete as a material for interior and furniture, firstly concrete is very hard, rough and heavy material. But also, it is very cheap as compared to any other material like wood and steel. Concrete gives freedom in many things like finishes, shapes, textures and we can also mold it in any shape and size very easily.

## 1. Introduction

Contrary to popular belief, concrete and cement are not the same things; cement is actually just a component of concrete. Concrete is basically made up of three components: water, aggregate (rock, sand or gravels) and Portland cement. Act as a binding material/agent when mixed with water and aggregates.

## 2. Properties of Concrete

It provides good mechanical strength, durable, having an excellent property of porosity and density. Ability to fire resistances, good thermal and acoustic insulation properties which impacts a good resistance.

## 3. Historic Approaches

Firstly, lime was used a binding material in construction after that concrete was introduced. The first concrete like structure were built by the Nabataea traders in southern Syria and northern Jordan in around 6500bc. At that time was use as a binding material in constructions and also for making concrete furniture and then it comes to the flooring also. For flooring the basically start adding different materials in it, Terrazzo flooring one of the example for the same. In early ages also concrete was used as a major material in many things like flooring, furniture, wall elevation and structure. Generally, there are variety of concrete structure found in forts and palaces.

## 4. Creative approach of designer to use concrete in interior

Now a days raw and industrial look are in trend in interiors. People wants minimal designs for their furniture and interiors and in those kinds of designs, designers are using concrete in their interior on a very high scale, as a flooring material, for installation, for wall elevations and also for furniture's.

Concrete furniture is one of the most trending and aesthetically appealing furniture. Also, we can use iron, steal and wood with it which enhance the properties and looking of the furniture.

Aluminum and steel can be used with concrete for making modern furniture. This thing provides many options and provide a freedom to designer to design in a different and in a new way. There are lots of things we can do in it. We can simply make the frame of any material like steel or wood and then filled it with concrete. Or we can also make only concrete furniture.





As we talk about concrete flooring, due to its high durability and sustainability concrete flooring can be used anywhere from interior to outdoor areas or on the terrace area also. From commercial to residential area, public to private area. It provides many design options, all types of finishes, and can match up with any other material very easily which gives new and creative designs.



As we can give any kind of finishes and texture in concrete like smooth, rough, hard and shiny. And we can easily add materials into it. Through these things we can create many interesting new wall elevations which will be aesthetically appealing.

#### 5. Merits & Demerits

Durability	Heavy
Color	Difficult to manage
Finish	Low tensile strength
Uniqueness	Less ductile
Adaptability	Concrete may contain soluble salts. Which can cause efflorescence.

#### 6. Concrete as a sustainable material

Firstly, if we talk about furniture, then concrete furniture is much more sustainable as compared to any other material. It gives liberty to design. And concrete furniture doesn't need that much maintenance as other materials need.

And if we talk about flooring then concrete flooring is one of the most sustainable and the most long-lasting flooring among all. In wall elevations also it doesn't need any maintenance and it also provides strength to the walls.

#### 7. Why designer is using concrete base furniture in their interior projects

As we know minimal and modern furniture are the upcoming trends of furniture in interior. People like solid colors and geometrical shapes more, or we can say they are turning towards it. As we talk about the present time, we can see that contemporary design and furniture are getting outdated. And people started accepting minimal and modern design aspects and in that also raw and industrial look are in trend.

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