

New Materials and Techniques for the Repair and Restoration of the Heritage Structure

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Abstract: *Thousands of years have passed since heritage structures were built, and they are frequently the most durable and well-known emblems of past civilizations. They are national symbols with cultural and historical significance, their condition being critical they need to be preserved. Each heritage structure has its different features, artistic finishes, and unique conservation issues requiring creative solutions. Pollution, aging action, fire, catastrophic events such as seismic, floods, tsunamis, cyclones, soil and structure interaction (soil settlement, etc.), faults in construction, and many other factors contribute to the deterioration of structures. This will be a major setback for the country, as heritage structures are significant landmarks. It is vital to select the appropriate material for rehabilitation based on the appearance of the parent construction. The new material should work well with the structure's existing materials. With the use of a case study of the restoration of the Bombay high court, this paper focuses on such challenges and corrective strategies to address them while maintaining the cultural integrity of the structure.*

Keywords: Heritage Structure; Rehabilitation; Restoration; Preservation; Conservation.

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