

# To Compare Pervious Concrete Block of Admixture with Normal Concrete Block

**Prof. Kumbhar A.N.<sup>1</sup>, Prof. Gaikwad K.A.<sup>2</sup>, Mr. Kadam Prashant Pandurang<sup>3</sup>,  
Mr. Pawar Akash Laxman<sup>4</sup>, Mr. Gurav Ganesh Vishnu<sup>5</sup>,  
Mr. Dundi Iranna Shivanand<sup>6</sup>, Mr. Maskar Sagar Sunil<sup>7</sup>**

Professor, Department of Civil Engineering<sup>1,2</sup>

Student, Department of Civil Engineering<sup>3,4,5,6,7</sup>

Shree Santkrupa Institute of Engineering and Technology, Ghogaon, Karad, India

**Abstract:** Pervious concrete is a concrete which has same composition as that of conventional concrete which consists of cement, sand, aggregate and water but partially or completely omitting fine aggregates. The recent concern for environmental and sustainable development, promotes the utilization of porous concrete. The use of pervious concrete can address these issues of environmental and sustainable development. The porous concrete paver blocks (PCPB), despite having low strength and high permeability, have a very wide range of applications like permeable pavement, groundwater purifier, heat and sound absorber. Pervious concrete paver blocks can widely be used for storm water management and has been successfully used for filtering the groundwater and reducing the pollutants entering the natural water streams rivers and ponds. Use of pervious concrete paver blocks on a large scale can also help in increasing the ground water table over a period of time. Use of pervious concrete has cost advantages over the use of conventional concrete also.

**Keywords:** Porous Concrete Paver Blocks

## REFERENCES

- [1]. C. Lian *et al.* Optimum mix design of enhanced permeable concrete – an experimental investigation (2010)
- [2]. M.S. Sumanasooriya *et al.* Pore structure features of pervious concretes proportioned for desired porosities and their performance prediction (2011)
- [3]. X. Shu *et al.* Performance comparison of laboratory and field produced pervious concrete mixtures (2011)
- [4]. M.U. Magesvari *et al.* Studies on characterization of pervious concrete for pavement applications (2013)
- [5]. Y. Chen *et al.* Strength, fracture and fatigue of pervious concrete (2013)
- [6]. B. Rehder *et al.* Fracture behavior of pervious concretes: the effects of pore structure and fibers (2014)
- [7]. C. Gaedicke *et al.* Assessing the abrasion resistance of cores in virgin and recycled aggregate pervious concrete (2014)
- [8]. L. Haselbach *et al.* Dissolved zinc and copper retention from stormwater runoff in ordinary portland cement pervious concrete (2014)
- [9]. M. Gesoglu *et al.* Abrasion and freezing-thawing resistance of pervious concretes containing waste rubbers (2014)
- [10]. W.D. Martin *et al.* Impact of vertical porosity distribution on the permeability of pervious concrete (2014)