

PERCON

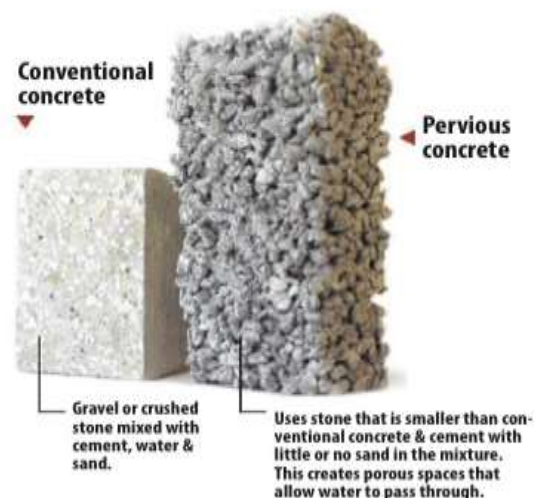
Percon by Nishu is made of Permeable or Porous or Pervious or No-fines concrete. It is a special type of concrete with a high porosity used for concrete flatwork applications that allows water to pass directly through, thereby reducing the runoff from a site and allowing groundwater recharge.



Percon is made using large aggregates with little to no fine aggregates. The concrete paste then coats the aggregates and allows water to pass through the concrete slab. It is traditionally used in parking areas, areas with light traffic, residential streets, pedestrian walkways, and greenhouses. It is an important application for sustainable construction which protects water quality.

History

Permeable concrete was first used in the 1800s in Europe as pavement surfacing and load bearing walls. Cost efficiency was the main motive due to a decreased amount of cement. It became popular again in the 1920s for two storey homes in Scotland and England. It became increasingly viable in Europe after the Second World War due to the scarcity of cement. It did not become as popular in the US until the 1970s. In India it became popular in 2000.



Advantages Of Percon

- Reduce Storm Water Runoff
- Clean Storm Water
- Replenish The Water Table/ Aquifers
- Allow For Rain Water Harvesting
- Reduce Urban Sprawl
- Protect Trees
- Reduce Urban Heat Island Effect
- Eliminate Ponding Water



Maintenance Of Percon

To prevent reduction in permeability, Percon pavements need to be cleaned regularly. Cleaning can be accomplished through wetting the surface of the slabs and vacuum sweeping.

Design the installation with minimal exposure to sediment from other areas.

Minimize the level of flow concentration.

Set up periodic testing for infiltration capacity.



Recommended Permeable Pavement

Application	Thickness (MM)	Strength (MPa)
Sidewalks & Trails	60-100	3
Residential Driveways	125-150	5
Parking Lots	125-190	7
Commercial Driveways	190-225	10

Technical Specifications

Density: 1630 KG/M³

Porosity: 18 to 25%
(Reduces with increase in Strength)

Shape & Size: As per separate sheet.

Size & Shape Sheet

THICKNESS (mm)	SHAPE (mm)	SIZE (mm)	Weight (Kg)
60	Rectangle	100 X 200	2
	Square	100 X 100	1
		200 X 200	4
		400 X 400	16
	ZigZag	25000 MM ²	3
80	Rectangle	200 X 100	3
	ZigZag	25000 MM ²	3
100	ZigZag	25000 MM ²	4
	Rectangle	200 x 100	3
90 or 190	Rectangle	390 x 190 x 90	11
125 or 190	Rectangle	390 x 190 x 125	15
140 or 190	Rectangle	390 x 190 x 140	16
190	Rectangle	390 x 190 x 190	23
100 or 150 or 200	Rectangle	200 x 150 x 100	5
100 or 150 or 230	Rectangle	230 x 150 x 100	6