

# FORMCRETE®

## PERVIOUS CONCRETE PAVEMENT

“THE PAVEMENT THAT **DRAINS**”



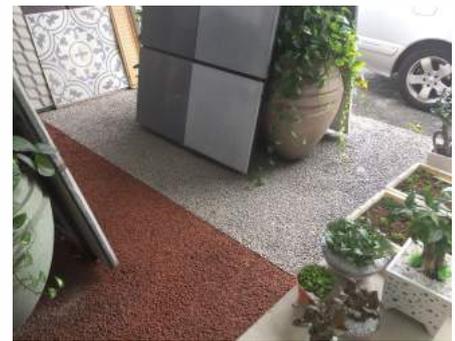
## FORMCRETE® PERVIOUS CONCRETE PAVEMENTS

FORMCRETE® PERVIOUS CONCRETE PAVEMENT IS A CONCRETE PAVEMENT MATERIAL CONSTRUCTED USING COARSE AGGREGATES, PORTLAND CEMENT, PROPRIETARY MINERAL BINDER AND ADDITIVES. IT IS DIFFERENT FROM CONVENTIONAL CONCRETE IN THAT IT CONTAINS NO FINES IN THE MIX. THE AGGREGATE IS USUALLY OF SINGLE SIZE OF 9 TO 12MM AND IS BONDED TOGETHER AT ITS POINTS OF CONTACTS BY A PASTE FORMED BY THE CEMENT, WATER, PROPRIETARY MINERAL BINDER AND ADDITIVES. THE RESULT IS A CONCRETE THAT DRAINS, I.E. A CONCRETE WITH HIGH PERCENTAGE OF INTERCONNECTED OPEN CELL STRUCTURE THAT PERMITS WATER TO FILTER THROUGH THE CONCRETE INTO UNDERLYING SOIL.

### BENEFITS

- ~ STORM WATER MANAGEMENT
- ~ MITIGATING HEAT ISLAND EFFECT
- ~ DRAIN AWAY SURFACE POLLUTANTS
- ~ ELIMINATE WATER PONDING PROBLEMS
- ~ RECYCLE DRAINED WATER FOR USE

## AREAS OF APPLICATIONS



- ~ OPEN AIR CAR PARKS
- ~ PEDESTRIAN WALKWAYS
- ~ SLOW SPEED DRIVEWAYS & ALLEYS
- ~ FLOOR FOR WASH AREAS
- ~ SIDEWALKS AND PATHWAYS
- ~ GOLF CART PATHS
- ~ PARK LANES AND BIKE TRACKS
- ~ LANDSCAPE AREA SURROUNDING TREE

\*\*IMAGES ABOVE ARE FOR ILLUSTRATION PURPOSE ONLY. KINDLY VIEW SAMPLES FOR ACTUAL COLOURS.

### CONTACT US NOW !!

TEL : 603 - 7859 1395/1758  
EMAIL : 603 - 7859 1395/1758

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PIONEER PROCESS SDN.BHD.  
243, JALAN AIRPORT (JALAN 2A), KG.BARU SUBANG  
40150 SHAH ALAM, SELANGOR DARUL EHSAN, MALAYSIA.



# PHYSICAL PROPERTIES

AGGREGATE SIZE	: 9MM / 12MM
THICKNESS	: FOR WALKING TRAFFIC - 75MM : FOR LIGHT VEHICLE TRAFFIC - 100 TO 150MM
VOID CONTENT	: 15 TO 25%
PERMEABILITY	: 12 TO 24 LITRES/ FT <sup>2</sup> / MINUTE
COMPRESSIVE STRENGTH	: 27 MPA (28 DAYS)
FLEXURAL STRENGTH	: 3.5 MPA (28 DAYS)
DENSITY	: 1,700 KG/M <sup>3</sup> (70% OF TRADITIONAL CONCRETE)
LIMITATION	: DUE TO ITS INHERENT STRUCTURE, PERVIOUS CONCRETE IS NOT APPROPRIATE FOR FAST MOVING / HEAVY VEHICLE TRAFFIC.
PRECAUTION	: CARE MUST BE EXCISED TO PREVENT EROSION AND SEDIMENT RUN-OFF AT AREAS ADJACENT TO THE PERVIOUS CONCRETE TO PREVENT CLOGGING.
MAINTENANCE	: SHOULD CLOGGING HAPPENS, PRESSURE WASHING AND VACUUMING WITH WET/DRY HEAVY DUTY VACUUM ARE RECOMMENDED.

## FORMCRETE PERVIOUS CONCRETE SYSTEM MATERIALS



**FORMCRETE PERVIOUS CONCRETE BINDER (25KG/BAG)**



**9MM - 12MM GRANITE / QUARRY CHIPS**



**FORMCRETE SOLVENT-BORNE CLEAR ACRYLIC SEALER (20 LITRE/TIN)**



**FORMCRETE SOLVENT-BORNE COLOUR SEAL ACRYLIC SEALER (20 LITRE/TIN)**

## COLOUR CHART FOR PERVIOUS CONCRETE



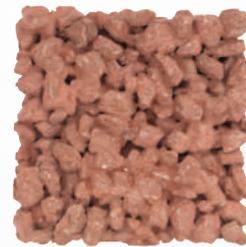
**WHITE**



**DARK GREY**



**OPC GREY**



**LIGHT BROWN**



**BROWN**



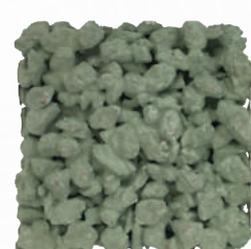
**RED**



**TERRACOTTA**



**YELLOW**



**GREEN**

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