



**STEEL
REINFORCED
POLYMER
CONCRETE**

**STRONG
DURABLE
ADAPTABLE**

**WILL YOUR
DESIGN SERVE
THE NEXT
GENERATION?**

WET WELLS

MANHOLES

CUSTOM STRUCTURES

JACKING PIPE

TUNNEL SEGMENTS

DIRECT BURY PIPE

SIPHONS

WWW.USCOMPOSITEPIPE.COM

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WHAT IS POLYMER CONCRETE?

POLYMER CONCRETE IS SIMILAR TO CONVENTIONAL CONCRETE IN THAT IT CONTAINS SELECTED BLENDS OF AGGREGATES AND FILLERS WHICH ARE HELD TOGETHER UTILIZING A BINDER. THE BINDER IS A HIGH STRENGTH, CORROSION RESISTANT, THERMOSETTING RESIN. THIS RESIN SYSTEM REQUIRES A CURING AGENT (CATALYST) WHICH WHEN COMBINED WITH THE RESIN, TRANSFERS THE RESIN AND CURING AGENT FROM A LIQUID TO A SOLID (THERMOSET POLYMER) WHICH BONDS TO THE AGGREGATE, VARIOUS FILLERS, AND INTERNAL REINFORCEMENT.

HOW IS POLYMER CONCRETE USED?

IN ORDER TO BUILD THE PIPE AND STRUCTURES USED IN TODAY'S COLLECTIONS SYSTEMS, THE POLYMER CONCRETE IS POURED INTO FORMS BEFORE THE CURING AGENT HARDENS THE MATERIAL. THE PROCESS IS MUCH LIKE THE WET-CAST PROCESS USED IN CONVENTIONAL PORTLAND CEMENT CONCRETE PIPE. THE TYPE AND SHAPE OF FORMS HAS ALMOST NO LIMIT, GIVING POLYMER CONCRETE PRODUCTS ENDLESS APPLICATIONS AS INFRASTRUCTURE COMPONENTS.

HOW DOES IT PERFORM?

POLYMER CONCRETE HAS SUPERIOR PERFORMANCE CHARACTERISTICS. IT CAN BE USED IN A PH RANGE OF 1 - 13. THE MATERIAL ITSELF IS IT'S OWN PROTECTION FROM CORROSION. THERE IS NO NEED TO COAT OR LINE POLYMER CONCRETE. BEING A STEEL REINFORCED CONCRETE PRODUCT, IT CAN HANDLE SEVERE LOADING.



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