PUMA POLYMERS

PRODUCT BULLETIN

MASTER WORKS™

M1 APPLICATION AREAS

COMPOSITES IN ARCHITECTURE

Cape Town, Republic of South Africa – A new direction in construction possibilities.

The verdigris domes are made from composite segments supported by ring beams.

HISTORIC PROJECTS – CASINO

The Golden Horse Casino, Pietermaritzburg, Republic of South Africa.

This 18-meters (59 feet) high horse and façade are constructed of sandstone-faced composite sections and panel systems.

HISTORIC PROJECTS – SHOPPING MALL

The Gateway Moll, Durban, Republic of South Africa. Composite column shells encasing steel stanchions enable the architect to create a dramatic interior environment in low cost steel-framed structure.

The column faces, 17 meters (over 55 feet) in height, were constructed off-site as two laminated sections and then fixed on site, therefore reducing site attendance.

BROTHERS – STYROX BUILDING SYSTEM

The Styrox Building System is an entirely new concept in rapid building systems where the hollow styrox block is assembled on a concrete raft. The hollow sections are subsequently filled with concrete, each containing a reinforcing bar connecting it to the raft.

Both internal and external faces are coated with Master Works™ M1, each contains a layer of reinforcement fabric and then a decorative finish is applied.

STYLING

Foam shapes cut by CNC controlled cutters. These are then over-sprayed and re-machined to give a fine quality surface from which subsequent molds can be made. This technique is becoming widely used in product development for automotive, marine and aerospace industries.

PUMA Polymers
PO Box 5413, 2003 Curtain Pole Road, Chattanooga, TN 37406
Toll Free: 877-744-0499 Telephone: 423-697-0499 Fax: 423-697-0437
www.pumapolymers.com

PUMA POLYMERS

PRODUCT BULLETIN

MOLDS

Master Works™ materials can be effectively used in combination with an epoxy gel coat to produce molds for advance composite systems such as epoxy pre-preg.

The Bentley downhill racer (left) was produced from this system. Inset is the tool for a component for Ascari Cars.

STRUCTURAL COATINGS

The object of this application is to provide rock stability by the application of a membrane to accomplish two functions:

1) to prevent small pieces of rocks from coming away causing deterioration of the structure by the removal of so-called key blocks, and
2) to prevent oxidization of mainly ferrous particles within the rock which would lead to further deterioration or unraveling.

SILICONE

Controlled thickness silicones, supported by rigid laminated pieces result in no shrinkage and no deformation.

CONTINUOUS PROCESSING

Continuously processed spray applied to non-combustible foam for building, ducting and pipeline insulation and for fire protection applications.

V2-052909

PUMA Polymers
PO Box 5413, 2003 Curtain Pole Road, Chattanooga, TN 37406
Toll Free: 877-744-0499 Telephone: 423-697-0499 Fax: 423-697-0437
www.pumapolymers.com