

strongbonds
polyseal pvt. Ltd.



An ISO 9001 : 2015 Accredited Company

**manufacturer of
Unsaturated Polyester Resin (UPR)**

WHY UPR ? / ADVANTAGES OF UPR

- ✓ HIGH MECHANICAL PROPERTY
- ✓ RESISTANCE TO CHEMICAL ATTACK
- ✓ ISULATION TO HEAT AND ELECTRICITY
- ✓ LONG SERVICE LIFE
- ✓ AFFORDABLE COST
- ✓ LOW INSTALLATION / MAINTENANCE COST
- ✓ LIGHT WEIGHT AND ATTRACTIVE APPEALING AESTHETICS
- ✓ HIGH TEMPERATURE WITHSTAND

WHO WE ARE

Strongbonds Polyseal Pvt. Ltd, an ISO 9001 : 2015 accredited company, is focused on the production of synthetic Unsaturated Polyester Resin (UPR) for thermosetting plastic products used in FRP/ GRP Component manufacturing as well as Non-FRP products and coatings purposes, for over 3 decades. Quality Control and Clients' satisfaction are the two primary factors for our success stories. We have strong distribution network in eastern India and beyond.

PRODUCT CATEGORY

- * ORTHOPHTHALIC BASED UNSATURATED POLYESTER RESIN
- * ISOPHTHALIC ACID BASED UNSATURATED POLYESTER RESIN
- * TEREPHTHALIC ACID BASED UNSATURATED POLYESTER RESIN
- * VINYLESTER RESIN.
- * FIRE RETARDANT RESIN
- * GELCOAT RESIN.
- * ROOFLITE/SKYLITE RESINS
- * SMC/BMC/DMC GRADE RESIN

Product Summary with Applications

PRODUCT CODE		DESCRIPTION	APPLICATION AREA									
ORTHOPHTHALIC BASED POLYESTER RESIN SERIES			HAND LAY-UP	FILAMENT WINDING	RTM/ VARTM	PULTRUSION	SMC/BMC	DMC	SPRAY UP	CASTING	LAMINATION	CORROGATED SHEET MAKING
POLYSEAL - 100	Orthophthalic Based Polyester Resin		⌒	⌒	⌒					⌒		
POLYSEAL - 102	Orthophthalic Based Polyester Resin		⌒		⌒							
POLYSEAL- 1010	Orthophthalic Based Polyester Resin		⌒	⌒	⌒					⌒		
POLYSEAL- 110	Orthophthalic Based Thixotropic Polyester Resin		⌒									
SMC/BMC/DMC POLYESTER RESINS												
POLYSEAL- 100 S	Orthophthalic Based Sheet Moulding Compound Resin						⌒					
POLYSEAL- 103	Orthophthalic Based Dough Moulding Compound Resin							⌒				
POLYSEAL- 101 S	Isophthalic Sheet moulding compound resin						⌒					
POLYSEAL - 100 SP	Terephthalic Sheet moulding compound resin						⌒					
ISOPHTHALIC BASED ANTI CORROSIVE RESINS												
POLYSEAL - 101	Isophthalic Based Unsaturated Polyester Resin		⌒	⌒	⌒					⌒		
POLYSEAL - 111 LV	Isophthalic Based Unsaturated Polyester Resin		⌒		⌒				⌒	⌒		
TOOLING RESIN												
POLYSEAL - 101(TOOLING)	Isophthalic- NPG based Tooling Grade Resin		⌒		⌒					⌒		
ROCK BOLTING RESIN												
POLYSEAL - 101 RB	Isophthalic Based Unsaturated Polyester Resin		SPECIALLY DESIGNED FOR ROCK BOLTING APPLICATION									
VINYL ESTER ANTI CORROSIVE RESINS												
POLYSEAL - 840	Epoxy based Vinyl Ester Resin		⌒	⌒	⌒				⌒	⌒		
POLYSEAL - 840 (H.G.)	Epoxy Novolac based Vinyl Ester Resin		⌒	⌒	⌒				⌒	⌒		
TEREPHTHALIC BASED POLYESTER RESIN SERIES												
POLYSEAL - 202	Terephthalic Unsaturated Polyester Resin		⌒	⌒	⌒				⌒	⌒		
POLYSEAL - 205	Terephthalic Unsaturated Polyester Resin		⌒	⌒	⌒				⌒	⌒		
FIRE RETARDANT REIN												
POLYSEAL- 100 FR	Orthophthalic Fire Retardant Resin		⌒		⌒				⌒			⌒
POLYSEAL- 101 FR	Isophthalic Fire Retardant Resin		⌒		⌒				⌒			⌒
POLYSEAL- 202 FR	Terephthalic Fire Retardant Resin		⌒		⌒							
GEL COAT RESINS												
POLYSEAL- 100 G	Orthophthalic Gelcoat Resin											
POLYSEAL- 101 G	Isophthalic Gelcoat Resin		⌒									
POLYSEAL- 101 G- Tooling	Isophthalic- NPG based Tolling Gelcoat Resin		⌒									
CLEAR CAST RESIN												
POLYCLEAR - 107	Orthophthalic Based Clear Cast Resin		SPECIALLY DESIGNED FOR CLEAR CAST PRODUCTS									
PULTRUSION RESIN												
POLYSEAL- 204	Terephthalic Pultrusion Grade Resin		SPECIALLY DESIGNED PULTRUSION APPLICATION									
ROOFLITE/SKYLITE RESINS												
POLYCLEAR- 104	Orthophthalic Based Rooflite Resin								⌒		⌒	⌒
* Resins can be tailored (Pre accelerated/ UV stabilized / PVC / Pre Promoted / Others requirement) as per customer specific requirement												
<div><div>ISOPHTHALIC</div><div>TEREPHTHALIC</div><div>VINYL ESTER</div></div>												

Features of each type of UPR

ORTHOPHTHALIC BASED POLYESTER RESIN SERIES		
PRODUCT GRADE	FEATURES	APPLICATION AREA
POLYSEAL - 100 ORTHOPHTHALIC BASED POLYESTER RESIN POLYSEAL - 102 ORTHOPHTHALIC BASED POLYESTER RESIN POLYSEAL- 110 ORTHOPHTHALIC BASED POLYESTER RESIN (THIXOTROPIC ECONOMICAL GRADE)	<ul style="list-style-type: none">✓ HIGH GLASS FIBER WET OUT✓ LIGHT WEIGHT,✓ HIGH STRENGTH-TO-WEIGHT RATIO✓ WATER RESISTANCE	<ul style="list-style-type: none">✓ PRESSURE VESSEL✓ BUILDING AND CONSTRUCTION✓ SPORTS & LEISURE✓ INTERIOR DECOR✓ AMUSEMENT ITEMS✓ ART RELATED ARTICLES✓ IDOL CASTING✓ LIGHT POLES✓ ELECTRICAL& ELECTRONICS✓ UV STABILIZED RESIN CAN BE USED FOR OUTDOOR APPLICATIONS.
ANTICORROSIVE RESIN SERIES		
ISOPHTHALIC ACID BASED POLYESTER RESIN POLYSEAL - 101 ISOPHTHALIC BASED POLYESTER RESIN POLYSEAL - 111 LV ISOPHTHALIC BASED POLYESTER RESIN (LOW VISCOUS)	<ul style="list-style-type: none">✓ CORROSION RESISTANCE AGAINST ORGANIC SOLVENTS.✓ GOOD CHEMICAL AND HEAT RESISTANCE PROPERTY.✓ LIGHT WEIGHT & GOOD AESTHETICS.✓ EXCELLENT MECHANICAL PROPERTY	<ul style="list-style-type: none">✓ CHEMICAL EQUIPMENT MANUFACTURING✓ SEWAGE PIPES✓ POLLUTION CONTROL EQUIPMENTS✓ OFF-SHORE MARINE PLATFORMS✓ MINING APPLICATIONS- FOR ROCK BOLTING (POLYSEAL- 101 RB)✓ JUTE REINFORCEMENT APPLICATION ETC.
VINYL ESTER RESIN POLYSEAL - 840 EPOXY BASED VINYL ESTER RESIN POLYSEAL - 840 (H.G.) EPOXY NOVOLAC BASED VINYL ESTER RESIN	<ul style="list-style-type: none">✓ EXCEPTIONAL ANTI CORROSIVE PROPERTY✓ SUITABLE FOR HIGH CORROSIVE ENVIRONMENT IN BOTH NORMAL AND HIGH TEMPERATURE✓ HIGH REACTIVITY✓ EXCELLENT WETTING AND BONDING TO GLASS FIBRES✓ LOW SHRINKAGE	
FIRE RETARDANT RESINS		
POLYSEAL- 100 FR ORTHOPHTHALIC BASED FIRE RETARDANT RESIN POLYSEAL- 101 FR ISOPHTHALIC BASED FIRE RETARDANT RESIN POLYSEAL- 202 FR TEREPHTHALIC BASED FIRE RETARDANT RESIN	<ul style="list-style-type: none">✓ MODERATE MECHANICAL PROPERTY✓ SUPERIOR MECHANICAL PROPERTY✓ LESS SMOKE GENERATION✓ GOOD MECHANICAL PROPERTIES	<ul style="list-style-type: none">✓ WIDELY USED FOR FIRE RESISTANT APPLICATIONS IN BOTH HAND LAY UP AND IN HIGH FIRE HAZARDOUS ZONE.✓ FLAME RETARDANT PARTS MANUFACTURING✓ FIRE RETARDANT LAMINATES MANUFACTURING.✓ MAKING OF COMPRESSION SHEET MOULDING✓ RAILWAY COACHES ; AUTOMOTIVE COMPONENTS ETC.

Features of each type of UPR

GEL COAT RESINS		
<p>POLYSEAL - 101 G ISOPHTHALIC- NPG BASED POLYESTER RESIN</p> <p>POLYSEAL- 100 G ORTHOPHTHALIC BASED GELCOAT RESIN</p> <p>POLYSEAL - 101 G (TOOLING) ISOPHTHALIC-NPG BASED TOOLING GRADE POLYESTER RESIN</p>	<ul style="list-style-type: none"> ✓ EXCELLENT WEATHERABILITY. ✓ VERY LOW WATER ADHESION. ✓ HIGH COVERAGE ✓ GOOD ABRASSION RESISTANCE ✓ MINIMUM SAGGING ✓ UV STABILISED ✓ EXCELLENT SURFACE FINISHING ✓ DESIRED THIXOTROPIC LEVEL 	<ul style="list-style-type: none"> ✓ BRUSHABLE ✓ IT IS USED AS A TOP COAT RESIN. OFF-SHORE MARINE PLATFORMS USED FOR A SMOOTH , COLOURED, ELASTIC AND HIGHLY GLOSSY SURFACE.
ROOFLITE / SKYLITE RESINS		
<p>POLYSEAL-104 ORTHOPHTHALIC BASED ROOFLITE RESIN</p>	<ul style="list-style-type: none"> ✓ MEDIUM REACTIVITY ✓ UV STABILIZED ✓ LOW VISCUS ✓ HIGH GLOSSY ✓ EXCELLENT WEATHER RESISTANCE ABILITY ✓ GOOD COMPATIBILITY WITH FIBER REINFORCEMENT. ✓ GOOD THERMAL STABILITY. 	<ul style="list-style-type: none"> ✓ PHOTO LAMINATION ✓ TRANSLUCENT ROOFING SHEET ✓ DECORATIVE LAMINATES
SMC/BMC/DMC GRADE RESIN		
<p>POLYSEAL- 100 S ORTHOPHTHALIC BASED SHEET MOULDING COMPOUND RESIN</p> <p>POLYSEAL- 103 ORTHOPHTHALIC BASED DOUGH MOULDING COMPOUND RESIN</p> <p>POLYSEAL- 101 S ISOPHTHALIC SHEET MOULDING COMPOUND RESIN</p> <p>POLYSEAL - 100 SP TEREPHTHALIC SHEET MOULDING COMPOUND RESIN</p>	<ul style="list-style-type: none"> ✓ HIGH TEMPERATURE MOULDING RESIN ✓ GOOD SURFACE FINISH ✓ GOOD MECHANICAL PROPERTIES ✓ SUPERIOR ELECTRICAL INSULATING PROPERTIES ✓ LOW SHRINKAGE ✓ BETTER MECHANICAL PROPERTIES THAN ORTHOPHTHALATE RESINS. ✓ EXCELLENT ELECTRICAL PROPERTIES ✓ EXCELLENT MECHANICAL AND IMPACT RESISTANCE PROPERTIES ✓ WATER RESISTANT AT ELEVATED TEMPERATURES ✓ LOW SHRINKAGE 	<p>HOT MOULD PRESS APPLICATIONS IN RAILWAY COACHES & AUTOMOTIVE COMPONENTS ETC.</p>

Features of each type of UPR

TEREPHTHALIC ACID BASED UNSATURATED POLYESTER RESIN		
POLYSEAL - 202 TEREPHTHALIC POLYESTER RESIN	<ul style="list-style-type: none"> ✓ EXCELLENT MECHANICAL AND IMPACT RESISTANT PROPERTY. 	<ul style="list-style-type: none"> ✓ SUITABLE FOR BOTH HAND LAYUP ✓ FILAMENT WINDING ✓ USED IN MILD CORROSIVE ENVIRONMENT AT OPTIMAL TEMPERATURE.
POLYSEAL - 205 TEREPHTHALIC POLYESTER RESIN	<ul style="list-style-type: none"> ✓ MODERATE VISCOSITY ✓ HIGH HEAT RESISTANT ✓ GOOD RESISTANCE TO MILD CORROSIVE CHEMICALS /WATER (AT ELEVATED TEMPERATURES) AND SEVERAL OIL. 	<ul style="list-style-type: none"> ✓ CHEMICAL STORAGE TANKS. ✓ CHEMICAL PROCESS <ul style="list-style-type: none"> ○ PIPELINES. ✓ WATER TANKS. ✓ SEWAGE PIPELINES.
PULTRUSION GRADE RESIN		
POLYSEAL - 204 TEREPHTHALIC PULTRUSION GRADE RESIN	<ul style="list-style-type: none"> ✓ EXCELLENT MECHANICAL PROPERTIES ✓ EXCELLENT WETNESS ✓ HIGH STRENGTH STRUCTURE 	PULTRUSION APPLICATIONS- STRUCTURAL CONSTRUCTION MATERIALS.
CLEAR CAST RESIN		
POLYSEAL - 107 ORTHOPHTHALIC BASED CLEAR CASTING RESIN	<ul style="list-style-type: none"> ✓ MEDIUM VISCUS ✓ PREE ACCELERATED ✓ CLEAR CASTING OF STATUES 	CLEAR CAS ARTICLES / STATUES ETC..
TOOLING GRADE RESIN		
POLYSEAL- 101 (TOOLING) ISOPHTHALIC – NPG BASED POLYESTER RESIN	<ul style="list-style-type: none"> ✓ HIGH REACTIVE HIGH MOLECULAR WEIGHTED NPG BASED RESIN ✓ GOOD CORROSIVE RESISTANCE PROPERTY ✓ HIGH HEAT RESISTANC 	FOR PREPARATION OF UPR MOULDS.