

PRODUCT GUIDE

TURKUAZ POLYESTER



TÜRKİYE'S
TOP 500 INDUSTRIAL
ENTERPRISES

TURKUAZ
POLYESTER

www.polyester.com.tr
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ABOUT US

Turkuaz Polyester is the leading unsaturated polyester resins, vinyl ester resins, gelcoats and pigment pastes manufacturer of Türkiye. Turkuaz Polyester plants are located at Gebkim Kocaeli-Gebze V (Chemistry) Specialized Organized Industrial Zone. With the company's second production plant, the company has two production plants with a 200,000 tonnes/year capacity.

Turkuaz Polyester uses a new full-automation system to follow up on the production process. Turkuaz Polyester has continuous innovation and technical support, always with its advanced laboratories.

Turkuaz Polyester has a certified quality control system. It is approved by ISO 9001:2008 Quality Management System Standards. Turkuaz Polyester also operates in accordance with European Union REACH regulations.

Turkuaz Polyester products serve a wide variety of markets, including infrastructure applications, the construction industry, the automotive industry, textile, marine, aviation, and wind energy. Polyester resins are generally used in the production of GRP pipes, acrylic bathtubs, kitchen countertops, quartz composite stones, buttons, modular cabins, marine vehicles, and automotive parts.

Turkuaz Polyester has a reputable and reliable distribution network in the domestic and international markets. Today, Turkuaz Polyester regularly exports its products to 50 countries. With its worldwide distribution network, Turkuaz Polyester delivers its products all over the world.

Turkuaz Polyester attaches importance to environmentally friendly production. In this context, the company's products, formulated with recycled materials and bio-based products, are designed "For a Better Future."

Turkuaz Polyester uses 100% renewable energy in its operations with its own solar panel farm. The company is listed among the top 15% of all companies globally and has been awarded a Silver Medal by EcoVadis.

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QUALITY APPROVED PRODUCTS

- ✓ ISO 9001:2008
- ✓ LLYOD'S REGISTER
- ✓ REACH REGISTRATION



BIO PRODUCT

RECYCLED PRODUCT

RENEWABLE ENERGY



UNSATURATED POLYESTER (UP) RESINS

CASTING

Casting UP resin series are used for casting purpose applications like bathtubs, wash basins, kitchen countertops and centrifuge devices etc.

Advantages:

- > Suitable for casting artificial marble and solid surface processing.
- > High filler capacity and Low shrinkage.
- > Economical resins that leaves elegant appearance on the final product.
- > Good mechanical properties.
- > Providing smooth and shiny surfaces.

Modifications:

CO: Accelerated
 UV: Contains UV Stabilizers
 LSE: Low Styrene Emission
 HV: High Viscosity
 LV: Low Viscosity
 SV: Special Viscosity

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP100	Ortho	400 -600 @25 °C 3 Sp. 20 rpm	4 - 8	@ 20°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	High filler capacity and Low shrinkage.	Casting
TP140	Ortho	210 -290 @25°C 2 Sp. 20 rpm	8 -12	@ 25°C, % 0,2 Co Oct(6% sltn) %1,5 MEK-P (Butanox M50)	Reactive and rigid casting resin with good mechanical properties.	Casting
TP160	Ortho	600 -800 @25°C 3 Sp. 20 rpm	13 - 15	@ 20°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	Application of this resin with granul particles provides a smooth, shiny and elegant appearance on the final product.	Solid Surface Casting
TP171	Iso/Npgg	600 -800 @23°C 4 Sp. 50 rpm	12 - 14	@ 23°C, % 1 Co Oct(1% sltn) %1 MEK-P (Butanox M60)	Excellent mechanical and chemical properties with high HDT. This resin has high resistane to chemicals, water and corrosion.	Solid Surface Casting

ENGINEERED STONE

This UP resin series are specialized for Engineered Stone (BRETONSTONE® technology) applications. It is designed for filling, natural composite stone productions and Breton stone technology applications.

Advantages:

- > Excellent clear colour and transparency.
- > Low shrinkage capacity.
- > Suitable for hot curing processes.
- > Easily applicable.
- > Approved by Breton Italy.
- > Providing smooth and shiny surfaces.

Modifications:

UV: Contains UV Stabilizers
 HV: High Viscosity
 LV: Low Viscosity
 SV: Special Viscosity

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP181	Ortho	400 -600 @25°C 3 Sp. 10 rpm	2 - 4	@ 80°C oil bath % 0,2 Co Oct(6% sltn) %2 TBPB (HC9)	This resin is designed especially for stone applications. It has a low shrinkage and with high mechanical properties. This resin had been approved by Breton Italy.	Engineered Stone
TP182	Ortho	400 -600 @25°C 3 Sp. 10 rpm	2 - 4	@ 80°C oil bath % 0,2 Co Oct(6% sltn) %2 TBPB (HC9)	This resin is designed especially for stone applications. It has a low shrinkage and with high mechanical properties. This resin had been approved by Breton Italy.	Engineered Stone
TP183	Ortho	450 -600 @25°C 3 Sp. 10 rpm	2 - 4	@ 80°C oil bath % 0,2 Co Oct(6% sltn) %2 TBPB (HC9)	This resin is designed especially for stone applications. It has a low shrinkage and with high mechanical properties. This resin had been approved by Breton Italy.	Engineered Stone
TP963	Ortho	400 -600 @25°C 3 Sp. 10 rpm	2 - 4	@ 80°C oil bath % 0,2 Co Oct(6% sltn) %2 TBPB (HC9)	This resin is designed especially for stone applications. It has a low shrinkage and with high mechanical properties. This resin had been approved by Breton Italy.	Engineered Stone

ACRYLIC ABS BACK-UP

This UP resin series is suitable for manufacturing of shower trays, bathtubs and hot tubs as support for Acrylic sheets.

Advantages:

- > High filling capacity.
- > Prevent draining when used on vertical or inclined surfaces.
- > Spray-up & hand lay-up applications.
- > Excellent adhesion on acrylic sheets.
- > Acrylic back-up sheet applications

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP340	Ortho	1200-1800 @25°C 3 Sp. 20 rpm	10 - 25	@ 20°C, %1 MEK-P (Butanox M60)	%40 CaCO3 (Calcium carbonate) filled, white colored resin, ready to use for Acrylic Sheet, ABS back-up Applications.	ABS Back-up
TP342	Ortho	12000 - 22000 @25°C 4 Sp. 5 rpm	10 - 20	@ 20°C, %1 MEK-P (Butanox M60)	%40 CaCO3 (Calcium carbonate) filled, white colored, more reactive resin, ready to use for Acrylic Sheet, ABS back-up Applications.	Acrylic
TP1300	Ortho	250-450 @25° C 3 Sp. 20 rpm	10 - 20	@ 20°C, %1 MEK-P (Butanox M60)	Unfilled, white colored resin, ready to use for Acrylic Sheet, ABS back-up Applications.	ABS Back-up
TP1301	Ortho	250-450 @25°C 3 Sp. 20 rpm	10 - 20	@ 20°C, %1 MEK-P (Butanox M50)	Unfilled, white colored, more reactive resin, ready to use for Acrylic Sheet, ABS back-up Applications.	Acrylic
TP1400	Ortho	200 -300 @25°C 3 Sp. 20 rpm	10 - 20	20° C %1 MEK-P (Butanox M50)	Unfilled, white colored resin, specialized for ABS back-up Applications.	Acrylic ABS Back-up



GENERAL PURPOSE

This UP resin series are used for all general purpose applications with Hand lay-up and spray-up applications. This resin series are designed for manufacturing the parts of building and construction, transportation and industrial applications.

Advantages:

- > Offer rapid and efficient wet-out.
- > Have excellent mechanical properties, with good rigidity and dimensional stability.
- > Suitable for use in hand lay-up, spray-up, pultrusion and cold press moulding processes.
- > To produce composite parts for different applications like boats, buses, trucks, masonry, exterior architectural elements and cabins etc.
- > Economical resin for GRP applications.

Modifications:
 TICO: Thixotropic and Accelerated
 CO: Accelerated
 AABP: Amine Accelerated
 LSE: Low Styrene Emission
 HV: High Viscosity
 LV: Low Viscosity
 SV: Special Viscosity
 UV: Contains UV Stabilizers

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP220	Ortho	350 - 500 @25°C 3 Sp. 20 rpm	5 - 8	@ 20°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	It is economical, low reactive resin. It is specially designed for non-critical fiberglass applications.	Hand lay-up, Laminating
TP220 TICO	Ortho	500-750 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M50)		Hand lay-up, Spray-Up, Laminating
TP212	Ortho	450 -650 @25°C 2 Sp. 30 rpm	13 -18	@ 25°C, % 0,2 Co Oct(6% sltn) %1,5 MEK-P (Butanox M50)	It is a low-medium reactive resin. It is suitable for all types of fiberglass applications.	Hand lay-up, Laminating
TP212 TICO	Ortho	500-750 @25°C 2 Sp. 20 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M50)		Hand lay-up, Spray-Up, Laminating
TP200	Ortho	350-500 @25°C 3 Sp. 20 rpm	5 - 8	@ 25°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	It is medium reactive resin with good mechanical properties. It can be used for all types of fiberglass applications.	Hand lay-up, Laminating
TP200 TICO	Ortho	500-750 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)		Hand lay-up, Spray-Up, Laminating
TP240	Ortho	400-600 @25°C 3 Sp. 20 rpm	6 - 10	@ 25°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	It is reactive resin with excellent mechanical properties. It is suitable to produce composite parts for automotive industry, vehicles and GRP parts for industrial applications where high HDT is required.	Hand lay-up, Laminating
TP240 TICO	Ortho	500-750 @25°C 2 Sp. 20 rpm	15 - 25	@ 25°C, %2 MEK-P (Butanox M60)		Hand lay-up Spray-Up Laminating
TP290	Ortho	500-700 @25°C 3 Sp. 20 rpm	6 - 10	@ 25°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	It is medium-high reactive resin with good mechanical properties. This resin application is suitable where high HDT is required.	Hand lay-up Laminating
TP1071	Iso	400-800 @25°C 3 Sp. 20 rpm	6 - 10	@ 20°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	It is a medium reactive resin with high chemical, corrosion and heat resistance. It has a very good fiber wetting property.	Hand lay-up Laminating
TP1071 TICO	Iso	500-750 @20°C 2Sp. 20 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M50)	It is a medium reactive thixotropic resin with high chemical, corrosion and heat resistance. It has a very good fiber wetting property.	Hand lay-up, Spray-Up, Laminating
TP56	Dcpd	400-600 @25 °C 3 Sp. 50 rpm	10 - 15	@ 20°C, % 1 Co Oct(1% sltn) %1 MEK-P (Butanox M60)	It is a medium reactive resin, with low shrinkage and very good fiber wetting property. It is specially designed for fiber reinforcement products, automotive industry and other general purpose GRP industrial applications.	Hand lay-up, Laminating
TP57	Dcpd	200-300 @25 °C 3 Sp. 20 rpm	10 - 20	@ 25°C, % 1 Co Oct(1% sltn) %1 MEK-P (Butanox M60)	It is a medium reactive resin, with low shrinkage and very good fiber wetting property. It is specially designed for fiber reinforcement products, automotive industry and other general purpose GRP industrial applications.	Hand lay-up, Laminating
TP57 TICO	Dcpd	500-600 @25 °C 4 Sp. 50 rpm	15-25	@ 20°C, %2 MEK-P (Butanox M60)	thixotropic, pre-accelerated, medium reactive, medium viscosity DCPD resin. It has excellent mechanical properties. It is DCPD based general purpose laminating resin with air release additives. It offers rapid and efficient wet-out.	Hand lay-up, Laminating
TP725 TICO	Dcpd/ Ortho	600-900 @25°C 2Sp. 50 rpm	12 - 16	@ 23°C, %1,5 MEK-P (Butanox M50)	It is medium reactive resin specially designed for reinforcement products, automotive industry and other GRP industrial applications.	Hand lay-up, Spray-Up, Laminating
TP1802	Tere	200-300 @25°C 3 Sp. 20 rpm	10 - 20	@ 25°C, % 1 Co Oct(1% sltn) %1 MEK-P (Butanox M60)	Medium-reactive, resin with high mechanical properties, fast curing, and low volumetric shrinkage.	Hand lay-up, Spray-Up, Laminating
TP1802 TICO	Tere	400 - 500 @25°C 4 Sp. 50 rpm	13 - 18	@ 23°C, %1 MEK-P (Butanox M60)	thixotropic, pre-accelerated, medium-reactive, medium-viscosity resin with high mechanical properties, fast curing, and low volumetric shrinkage.	Hand lay-up, Spray-Up, Laminating
TP90	R-pet	400-600 @25°C 3 Sp. 20 rpm	5 - 8	@ 20°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	It is economical resin with very good mechanical and chemical properties. It has a good fiber wet-out.	Hand lay-up, Spray-Up, Laminating
TP90 TICO	R-pet	500 -750 @25°C 2 Sp. 20 rpm	20 - 30	@ 20°C, %1 MEK-P (Butanox M50)	It is economical thixotropic resin with very good mechanical and chemical properties. It has a good fiber wet-out.	Hand lay-up, Spray-Up, Laminating

RTM / INFUSION

This UP resin series is designed for use in Resin Transfer Moulding (RTM) and infusion applications.

Advantages:

- > Low viscosity.
- > Good impact resistance.
- > Excellent fiber wet-out.
- > Used for vehicle parts and water slide productions etc.
- > Allows for high quality GRP parts on both surfaces.

Modifications:

CO: Accelerated
HV: High Viscosity
LV: Low Viscosity
SV: Special Viscosity

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP260	Ortho	250-350 @25°C 3 Sp. 20 rpm	10 - 12	@ 20°C, % 0,1 Co Oct(1% sltn) %1 MEK-P (Butanox M50)	Economic grade resin with medium reactivity for RTM applications.	RTM
TP260 TICO	Ortho	500-750 @25°C 4 Sp. 50 rpm	15 - 25	@ 25°C, %2 MEK-P (Butanox M60)		RTM
TP 911-CO	Ortho	150-250 @20°C 2 Sp. 20 rpm	22 - 24	@ 20°C, %1 MEK-P (Butanox M60)	Medium reactive, pre-accelerated resin with 30-35% filler capacity and low shrinkage property. Suitable for RTM processes. High HDT.	RTM
TP911-CO-I	Ortho	160-180 @20°C 2 Sp. 20 rpm	22 - 24	@ 20°C, %1 MEK-P (Butanox M60)	Medium reactive, pre-accelerated resin with 30-35% filler capacity and low shrinkage property. Suitable for Infusion processes. High HDT.	Infusion
TP 976-CO	Iso	150-250 @20°C 2 Sp. 20 rpm	22 - 24	@ 20°C, %1 MEK-P (Butanox M60)	Medium reactive, pre-accelerated resin with 30-35% filler capacity and low shrinkage property. This resin has very good mechanical properties. Suitable for RTM processes. High HDT.	RTM
TP976-CO-I	Iso	160-180 @20°C 2 Sp. 20 rpm	22 - 24	@ 20°C, %1 MEK-P (Butanox M60)	Medium reactive, pre-accelerated resin with 30-35% filler capacity and low shrinkage property. This resin has very good mechanical properties. Suitable for Infusion processes. High HDT.	Infusion

PULTRUSION

This UP resin series is designed for use in pultrusion processes and suitable for production of structural profiles, rebars, posts and pipes of low diameter.

Advantages:

- > Fast curing and high mechanical properties.
- > Compatible with roving glass.
- > High chemical, water and corrosion resistance.
- > Used for pultrusion applications.

Modifications:

HV: High Viscosity
LV: Low Viscosity
SV: Special Viscosity

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP1075PU	Iso	270 - 330 @20°C 2Sp. 20 rpm	6 - 12	@ 25°C, % 0,3 Co Oct(6% sltn) %1,5 MEK-P (Butanox M50)	Medium-high reactive resin with high chemical, water and corrosion resistance.	Pultrusion
TP1071PU	Iso	500 - 650 @25°C 4 Sp. 50 rpm	9 - 11	@ 25°C, % 0,1 Co Oct(1% sltn) %1 MEK-P (Butanox M50)	Medium reactive resin with high chemical, water and corrosion resistance.	Pultrusion
TP200PU	Ortho	270-330 @25°C 2 Sp. 20 rpm	6 - 12	@ 25°C, % 0,3 Co Oct(6% sltn) %1,5 MEK-P (Butanox M50)	Medium reactive resin with good chemical, water and corrosion resistance.	Pultrusion
TP290PU	Ortho	500 - 650 @25°C 2 Sp. 20 rpm	8 - 12	@ 25°C, % 0,25 Co Oct(6% sltn) %1 MEK-P (Butanox M50)	Medium - high reactive, high HDT resin with good chemical, water and corrosion resistance.	Pultrusion

CONTINUOUS LAMINATING

This UP resin series is suitable for continuous laminating sheet applications such as greenhouse covers and roofing systems. It is also preferred to produce foam sandwich panels, refrigerated vehicle panels, truck panels, and RV panels.

Advantages:

- > Resin has high mechanical properties.
- > Very good fiber wetting property.
- > High-light transmittance.
- > Excellent clear color and transparency.

Modifications:

CO: Accelerated
UV: Contains UV Stabilizers
LSE: Low Styrene Emission
HV: High Viscosity
LV: Low Viscosity
SV: Special Viscosity

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP812	Ortho	200-250 @25°C 3 Sp. 20 rpm	3 - 5	@ 25°C, % 1 Co Oct(1% sltn) %1 MEK-P (Butanox M60)	This resin has excellent fiber wetting property and high-light transmittance.	Continuous Laminating
TP2291	Ortho	180 -260 @25°C 3 Sp. 50 rpm	10 - 20	@ 25°C, % 1 Co Oct(1% sltn) %1 MEK-P (Butanox M60)	This resin has excellent fiber wetting property and high-light transmittance.	Continuous Laminating
TP57-L	Dcpd	200 - 300 @25°C 3 Sp. 20 rpm	30 - 35	@ 25°C, % 1 Co Oct(1% sltn) %1 MEK-P (Butanox M60)	Dcpd based non-thixotropic, non-accelerated, medium-high reactive, low-viscosity resin with a high HDT value.	Continuous Laminating
TP890	Ortho	200-300 @25°C 3 Sp. 20 rpm	8 - 15	@ 25°C, % 1 Co Oct(1% sltn) %1 MEK-P (Butanox M60)	medium-high reactive, low-viscosity with excellent clarity and transparency. It offers superior fiber wetting properties and high light transmittance, with a high HDT value.	Continuous Laminating

HOT PRESS SMC AND BMC

This UP resin series is used for Sheet Molding Compound (SMC) and Bulk Molding Compound (BMC) applications like production of various electronic parts, small and medium size automotive parts, lighting fixtures and many other industrial parts.

Advantages:

- > High reactivity.
- > High filler acceptance.
- > Good dimensional stability.
- > Excellent mechanical properties, heat and chemical resistant.
- > Stable thickening behaviour.

Modifications:

HV: High Viscosity
LV: Low Viscosity
SV: Special Viscosity

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP524	Ortho	1000 - 1300 @25°C 3 Sp. 20 rpm	3 - 7	@ 25°C, % 0,25 Co Oct(6% sltn) %2 MEK-P (Butanox M50)	high-reactive, high-viscosity orthophthalic with excellent dimensional stability, mechanical properties, and resistance to heat and chemicals. Ideal for all Sheet Molding Compound (SMC) and Bulk Molding Compound (BMC) processes.	SMC/BMC
TP565	Ortho	1000 - 1300 @25°C 3 Sp. 20 rpm	3 - 7	@ 25°C, % 0,25 Co Oct(6% sltn) %2 MEK-P (Butanox M50)	high-reactive, high-viscosity orthophthalic with excellent dimensional stability, mechanical properties, and resistance to heat and chemicals. Ideal for all Sheet Molding Compound (SMC) and Bulk Molding Compound (BMC) processes.	SMC/BMC
TP525	ISO/ NPG	1000 - 1300 @25°C 3 Sp. 20 rpm	3 - 7	@ 25°C, % 0,25 Co Oct(6% sltn) %2 MEK-P (Butanox M50)	high-reactive, high-viscosity orthophthalic with excellent dimensional stability, mechanical properties, and resistance to heat and chemicals. Ideal for all Sheet Molding Compound (SMC) and Bulk Molding Compound (BMC) processes.	SMC/BMC

FILAMENT WINDING

This UP resin series is specially designed for use in filament winding applications. This resin series is suitable for manufacturing of different size FRP/GRP pipes and tanks.

Advantages:

- > Excellent mechanical and chemical properties.
- > Fast curing
- > Efficient wet-out
- > Compatible with roving glass.
- > Excellent results with Large diameter FRP/GRP Pipe production

Modifications:

TICO: Thixotropic and Accelerated
CO: Accelerated
LSE: Low Styrene Emission
HV: High Viscosity
LV: Low Viscosity
SV: Special Viscosity

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP1040	Ortho	250 - 350 @20°C 2 Sp. 20 rpm	10 - 20	@ 25°C, % 1 Co Oct(1% sltn) %1,1 MEK-P (Butanox M50)	Medium reactive resin with good mechanical properties. Fast curing and efficient wet-out.	Filament Winding
TP1802	Tere	200-400 @25°C 3 Sp. 20 rpm	10 - 20	@ 25°C, % 1 Co Oct(1% sltn) %1 MEK-P (Butanox M60)	Medium reactive resin with good mechanical properties. Fast curing and efficient wet-out.	Filament Winding
TP1984	Tere	200-400 @25°C 3 Sp. 20 rpm	10 - 20	@ 25°C, % 1 Co Oct(1% sltn) %1 MEK-P (Butanox M60)	Economical, medium reactive resin with high mechanical properties. This resin has good resistance to chemicals, heat and water. Fast curing and efficient wet-out.	Filament Winding
TP1986	Iso	300-450 @25°C 3 Sp. 20 rpm	10 - 20	@ 25°C, % 1,5 Co Oct(1% sltn) %1,5 MEK-P (Butanox M60)	Medium reactive resin with excellent mechanical properties. This resin has high resistance to chemicals, heat and water. Fast curing and efficient wet-out.	Filament Winding

BUTTON TYPE

This UP resin series is suitable for manufacturing of buttons with rod and centrifugal casting methods.

Advantages:

- > Excellent clarity and transparency.
- > Ideal hardness and flexibility balances.
- > Best curing characteristics.
- > Compatible with pearlescent colors and pigment pastes.
- > For button production for both rod and centrifugal

Modifications:

HV: High Viscosity
LV: Low Viscosity
SV: Special Viscosity

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP400	Ortho	650 -800 @25°C 3 Sp. 20 rpm	7 - 14	@ 20°C, % 0,1 Co Oct(6% sltn) %1 MEK-P (Butanox M60)	A-grade high quality resins for centrifugal casting processes and sheet casting buttons. Excellent clarity and transparency.	Centrifugal Casting
TP400C	Ortho	1300-1600 @25°C 4Sp. 50 rpm	7 - 14	@ 20°C, % 0,1 Co Oct(6% sltn) %1 MEK-P (Butanox M60)	A-grade high quality resins for rod casting processes and sheet casting buttons. Excellent clarity and transparency.	Rod Casting
TP409	Ortho	650 -800 @25°C 3 Sp. 20 rpm	8 - 14	@ 20°C, % 0,1 Co Oct(6% sltn) %1 MEK-P (Butanox M60)	This resin has good quality for centrifugal casting processes and sheet casting buttons.	Centrifugal Casting
TP409C	Ortho	1300-1600 @25°C 4Sp. 50 rpm	7 - 14	@ 20°C, % 0,1 Co Oct(6% sltn) %1 MEK-P (Butanox M60)	This resin has good quality for rod casting processes and sheet casting buttons.	Rod Casting
TP410	Ortho	650 -800 @25°C 3 Sp. 20 rpm	7 - 14	@ 20°C, % 0,1 Co Oct(6% sltn) %1 MEK-P (Butanox M60)	This resin is specialized for shirt button production. Suitable for centrifugal casting method.	Centrifugal Casting
TP402	Ortho	650 -800 @25°C 3 Sp. 20 rpm	7 - 14	@ 20°C, % 0,1 Co Oct(6% sltn) %1 MEK-P (Butanox M60)	A-grade high quality resins for centrifugal casting processes and sheet casting buttons. Excellent clarity and transparency.	Centrifugal Casting

PRIMING / PUTTY

This UP DCPD based resin series is designed for use in priming application and it is suitable for repairing car bodyworks, boats, fill and assemble glass wool products.

Advantages:

- > High filling power.
- > Easy sandability.
- > Excellent chemical and physical resistance.
- > Cold curing properties.
- > Good adhesion.

Modifications:

HV: High Viscosity
LV: Low Viscosity
SV: Special Viscosity

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP55-AABP	Dcpd	450-550 @25 °C 3 Sp. 20 rpm	9 - 15	@20°C %2 BPO	Resin has cold curing properties. The paste has very good adhesion to metal, aluminum, wood and mineral surfaces.	Priming
T54-AABP	Dcpd	500-600 @20°C 3 Sp. 50 rpm	10 - 20	@20°C %2 BPO	Flexible resin which has cold curing properties. The paste has very good adhesion to metal, aluminum, wood and mineral surfaces.	Priming
T51-AABP	Dcpd	350 - 450 @25 °C 3 Sp. 20 rpm	6 - 8	@25°C %2 BPO	Hard resin which has cold curing properties. The paste has very good adhesion to metal, aluminum, wood and mineral surfaces.	Priming

HIGH CHEMICAL CORROSION RESISTANT

This UP resin series are specialized in use of chemical storage tanks, pipes, scrubbers-absorbers, spray banks and re-circulators, spools, stack and chimney for petrochemical industries, pulp mills, power plants, marine vehicles, solar panel systems and polyester concrete flooring productions.

Advantages:

- > Resistant to chemical corrosion and high temperatures.
- > High chemical and waters resistance.
- > Compatible with fiberglass/ roving glass.
- > Fast curing and excellent wet-out.
- > Good adhesion.

Modifications:

TICO: Thixotropic and Accelerated
CO: Accelerated
UV: Contains UV Stabilizers
AABP: Amine Accelerated
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Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP171	Iso/Npg	550-650 @23°C 4 Sp. 50 rpm	8 - 12	@ 23°C, % 1 Co Oct(1% sltn) %1 MEK-P (Butanox M50)	Medium-high reactive resin with excellent mechanical and chemical properties. This resin has very high chemical, water and corrosion resistance.	High chemical, water, corrosion resistance
TP1412	Iso/Npg	600-800 @25°C 3 Sp. 20 rpm	8- 14	@ 20°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	Medium-high reactive resin with excellent mechanical and chemical properties. This resin has a very high chemical, water and corrosion resistance.	High chemical, water, corrosion resistance
TP1071	Iso	650-750 @25°C 3 Sp. 20 rpm	6- 10	@ 20°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	Medium reactive resin with high mechanical properties. This resin is suitable where chemical resistant is needed for Hand lay-up spray-up applications.	High Chemical Resistant
TP1986	Iso	300-450 @25°C 3 Sp. 20 rpm	10 - 20	@ 25°C, % 1,5 Co Oct(1% sltn) %1,5 MEK-P (Butanox M60)	Medium reactive resin with high mechanical properties. This resin is suitable where chemical resistant is needed for filament winding applications.	High Chemical Resistant

VINYL ESTER RESINS

This vinyl ester series resins are suitable in production of fibre reinforced composites with laminating, contact moulding, filament winding, injection moulding application methods. The sectors that most of all use vinyl ester resin are the nautical sector and chemical and petrochemical industry. This series resins are suitable for production of high-performance hulls, heat-resistant nautical bodies and hulls, competition boats, tanks and containers containing corrosive substances.

Advantages:

- > High HDT
- > High Heat resistance
- > High Chemical resistance (especially resistant to chlorinated media, many solvents and petrol)
- > High Mechanical resistance
- > Ideal for fiberglass, aramid and carbon fibers

Modifications:

TICO: Thixotropic and Accelerated
 CO: Accelerated
 AABP: Amine Accelerated
 UV: Contains UV Stabilizers
 LSE: Low Styrene Emission
 HV: High Viscosity
 LV: Low Viscosity
 SV: Special Viscosity

Resin Type	Base	Viscosity (cps) @25°C 4 sp. 50 rpm	Gel Time (min)	Curing System @ 23°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	Features	Applications
TV101	Bisphenol-A	400-500 @25°C 4 sp. 50 rpm	20 - 25	@ 23°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	High corrosion resistance, long term high heat resistance and excellent adhesion. This resin can be used safely in acidic and alkaline environments, in areas that interact with chemicals, for corrosion protection	Laminating, Contact moulding, Filament winding, Injection moulding
TV121	Bisphenol-A	300-500 @25°C 4 sp. 50 rpm	20 - 25	@ 23°C, % 0,2 Co Oct(6% sltn) %2 MEK-P (Butanox M60)	High chemical resistance to a wide range of substances, (acids, alkalies, oxidizing agents) at room and elevated temperatures with high corrosion resistance.	Contact moulding, Filament winding, Injection moulding



GELCOATS

GENERAL PURPOSE

This general purpose gelcoat series is suitable for non-critical parts where chemical resistance, heat and water resistance are not at a high level. This gelcoat series is formulated for production of kitchen tubs, spoiler, cabins, interior decoration, shower units, utility boxes, spoilers, game parks, truck trailers, cooling towers.

Advantages:

- > Very good resistance to yellowing and UV rays.
- > Enhanced weatherability.
- > Excellent pigmentation

Modifications:

S: Spray-Up
H: Hand Lay-up
T: Transparent
W: White

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP600 S-T	Ortho	1200-1500 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated, medium reactive, transparent gelcoat with containing UV absorbers and providing excellent pigmentation. Formulated for use in general industrial applications.	Spray-up
TP600 S-W	Ortho	1200-1500 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated, medium reactive, white gelcoat with containing UV absorbers and providing excellent pigmentation. Formulated for use in general industrial applications.	Spray-up
TP600 H-T	Ortho	2.500-4.000 s @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated, medium reactive, transparent gelcoat with containing UV absorbers and providing excellent pigmentation. Formulated for use in general industrial applications.	Hand lay-up
TP600 H-W	Ortho	2.500-4.000 s @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated, medium reactive, white gelcoat with containing UV absorbers and providing excellent pigmentation. Formulated for use in general industrial applications.	Hand lay-up

PERFORMANCE

This performance gelcoat series is suitable for products where high resistance to water and atmospheric conditions are required and where the aesthetic appearance is important besides high chemical and physical resistance properties. This gelcoat series is formulated for cultured marble, artificial marble, automotive, marine, construction and tank applications.

Advantages:

- > Very good resistance to yellowing and UV rays.
- > High resistance to heat and chemicals.
- > Used in all areas where the product aesthetics and brightness are frontal.

Modifications:

S: Spray-Up
H: Hand Lay-up
T: Transparent
W: White

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP900 S-T	Ortho / Npg	1200-1500@25°C 4 Sp. 50 rpm	15 - 25	@ 20°C,%1 MEK-P (Butanox M60)	Pre-accelerated medium reactive transparent gelcoat with containing UV absorbers. Providing high resistance to heat and chemicals.	Spray-up
TP900 S-W	Ortho / Npg	1200-1500@25°C 4 Sp. 50 rpm	15 - 25	@ 20°C,%1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, white gelcoat with containing UV absorbers. Providing high resistance to heat and chemicals.	Spray-up
TP900 H-T	Ortho / Npg	1200-1500@25°C 4 Sp. 50 rpm	15 - 25	@ 20°C,%1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, transparent gelcoat with containing UV absorbers. Providing high resistance to heat and chemicals.	Hand lay-up
TP900 H-W	Ortho / Npg	1200-1500@25°C 4 Sp. 50 rpm	15 - 25	@ 20°C,%1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, white gelcoat with containing UV absorbers. Providing high resistance to heat and chemicals.	Hand lay-up
TP986 S-T	Iso	2.500-4.000 s@25°C 4 Sp. 50 rpm	15 - 25	@ 20°C,%1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, transparent gelcoat with containing UV absorbers. Providing very high resistance to heat and chemicals.	Spray-up
TP986 S-W	Iso	2.500-4.000 s@25°C 4 Sp. 50 rpm	15 - 25	@ 20°C,%1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, white gelcoat with containing UV absorbers. Providing very high resistance to heat and chemicals.	Spray-up
TP986 H-T	Iso	2.500-4.000 s@25°C 4 Sp. 50 rpm	15 - 25	@ 20°C,%1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, transparent gelcoat with containing UV absorbers. Providing very high resistance to heat and chemicals.	Hand lay-up
TP986 H-W	Iso	2.500-4.000 s@25°C 4 Sp. 50 rpm	15 - 25	@ 20°C,%1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, white gelcoat with containing UV absorbers. Providing very high resistance to heat and chemicals.	Hand lay-up

HIGH PERFORMANCE

This high performance gelcoat series is suitable for products where excellent resistance to chemicals, heat and water is needed, with a high resistance to thermal shock, UV, scratch / tear, wrinkle and fade. This gelcoat series can easily be used in outdoor applications as it is formulated for use in sectors such as construction, transportation, and automotive industries. It is also suitable for general mold processes.

Advantages:

- > High UV absorbing capacity.
- > Good resistance to yellowing.
- > High resistance to heat and chemicals.
- > Excellent to achieve desired aesthetics and brightness.
- > Long term performance.
- > Excellent osmosis resistance

Modifications:

S: Spray-Up
H: Hand Lay-up
T: Transparent
W: White

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP700 S-T	Iso / Npg	5000- 6000 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, transparent gelcoat with containing UV absorbers. Providing excellent resistance to chemicals heat and water.	Spray-up
TP700 S-W	Iso / Npg	5000- 6000 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, white gelcoat with containing UV absorbers. Providing excellent resistance to chemicals heat and water.	Spray-up
TP700 H-T	Iso / Npg	5000- 6000 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, transparent gelcoat with containing UV absorbers. Providing excellent resistance to chemicals heat and water.	Hand lay-up
TP700 H-W	Iso / Npg	5000- 6000 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, white gelcoat with containing UV absorbers. Providing excellent resistance to chemicals heat and water.	Hand lay-up
TP1000 S-T	Iso / Npg	1200-1500 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, transparent gelcoat with containing UV absorbers. Providing excellent resistance to chemicals heat and water.	Spray-up
TP1000 S-W	Iso / Npg	1200-1500 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, white gelcoat with containing UV absorbers. Providing excellent resistance to chemicals heat and water.	Spray-up
TP1000 H-T	Iso / Npg	2.500-4.000 s @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, transparent gelcoat with containing UV absorbers. Providing excellent resistance to chemicals heat and water.	Hand lay-up
TP1000 H-W	Iso / Npg	2.500-4.000 s @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, white gelcoat with containing UV absorbers. Providing excellent resistance to chemicals heat and water.	Hand lay-up



MARINE

This marine gelcoat series is specialized for marine applications. This gelcoat series has excellent resistance to heat and water, with a high resistance to thermal shock, UV, scratch / tear, wrinkle and fade. This gelcoat series is formulated for use in boats, yachts and marine industry.

Advantages:

- > High UV absorbing capacity.
- > Good resistance to yellowing.
- > High resistance to heat.
- > Excellent to achieve desired aesthetics and brightness.

Modifications:

S: Spray-Up
H: Hand Lay-up
T: Transparent
W: White

Resin Type	Base	Viscosity (cps)	Gel Time (min)	Curing System	Features	Applications
TP1080 S-T	Iso / Npg	1200-1500 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, transparent gelcoat with containing UV absorbers. Providing excellent resistance to water and heat. Specialized for marine industry.	Spray-up
TP1080 S-W	Iso / Npg	1200-1500 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, white gelcoat with containing UV absorbers. Providing excellent resistance to water and heat. Specialized for marine industry.	Spray-up
TP1080 H-T	Iso / Npg	2500-4000 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, transparent gelcoat with containing UV absorbers. Providing excellent resistance to water and heat. Specialized for marine industry.	Hand lay-up
TP1080 H-W	Iso / Npg	2500-4000 @25°C 4 Sp. 50 rpm	15 - 25	@ 20°C, %1 MEK-P (Butanox M60)	Pre-accelerated medium reactive, white gelcoat with containing UV absorbers. Providing excellent resistance to water and heat. Specialized for marine industry.	Hand lay-up



CERTIFICATES

ISO 27001	Information Security, Cybersecurity and Privacy Protection - Information Security Management Systems - Requirements
ISO 20400	Sustainable Procurement - Guidance
ISO 9001	Quality Management Systems - Requirements
ISO 10002	Quality management - Customer satisfaction - Guidelines for complaints handling in organizations
ISO 14001	Environmental Management Systems - Requirements with guidance for use
ISO 14006	Environmental management systems — Guidelines for incorporating Ecode-sign
ISO 14021	Environmental labels and declarations — Self-declared environmental claims (Type II environmental labelling)
ISO 28001:2007	Security management systems for the supply chain - Requirements
ISO 37001:2016	Anti-bribery management systems - Requirements with guidance for use
ISO 45001	Occupational health and safety management systems — Requirements with guidance for use
ISO 50001	Energy management systems — Requirements with guidance for use
OHSAS 18001	Occupational Health and Safety Assessment Series 18001
SA 8000	Social Accountability 8000

TURKUAZ POLYESTER

PRODUCT GUIDE

Headquarters and factory

GEBKİM OSB, Recep Yazıcı Cad.,
NO:8 41480 Dilovası/Kocaeli, TURKEY
T: +90 262 502 19 20
F: +90 262 502 17 29
E: info@turkuazpolyester.com



www.polyester.com.tr
www.turkuazpolyester.com.tr