

COATING SOLUTIONS FOR WIND TURBINES

Protective and functional coatings



TIKKURILA COATINGS FOR WIND TURBINES



Tikkurila is one of the leading supplier for energy industry in Scandinavia, Baltics, Russia and in several other European and Asian countries. The company offers high performance coatings for anti-corrosion protection of wind turbines for both off-shore and on-shore environments as well as for interior and exterior surfaces.

Tikkurila paint systems meet requirements of the most useful and demanding standards as EN ISO 12944, EN ISO 20340 and NORSOK M-501.w

THE ADVANTAGES OF TIKKURILA PROTECTIVE COATINGS:

- Wide range of the product portfolio
- High-quality products for competitive prices
- Various time-proven paint systems for different environment
- Reliable partner with strong technical support

EXTERIOR STEEL SURFACES IN ON-SHORE AREAS (TURBINE TOWER, GEARBOX, ETC.)

System code	Paint system	DFT, μm	Type of the system	Corrosivity category	
High-solids, modified polyurethane systems (polyurea)					
TP99	Temasolid SC-F 80	120	PUR120/1-FeSa2½	C3-M, C4-L	
TP96	Temasolid SC 60	120	PUR120/1-FeSa2½	C3-H, C4-M	
Water-borne intermediate coat and topcoat					
TH53	Temazinc 99 Fontecoat EP 50 Beige Fontedur HB 80	40 120 20	EPZn(R)EPPUR240/3-FeSa2½	C4-H, C5-I-M	
Single-coat epoxy and polyurethane paint systems					
	Temacoat 50	100	EP100/1-FeSa2½	C3-H	
	Temacoat 50	80	EP80/1-FeSa2½	C3-M	
	Temadur HB 50	100	PUR100/1-FeSa2	C1, C2	

INTERIOR STEEL SURFACES (E.G. INNER SURFACES OF TURBINE TOWERS, GEARBOXES, ETC.)

System code	Paint system	DFT, μm	Type of the system	Corrosivity category		
Single-coat epo	Single-coat epoxy and polyurethane paint systems					
	Temacoat 50	80	EP80/1-FeSa2½	C3-M		
TP71	Temadur HB 50	100	PUR100/1-FeSa2	C1, C2		
Water-borne intermediate coat and topcoat						
TF27	Fontecoat EP 50	100	EP100/1-FeSa2½	C1, C2		
TF27	Fontecoat EP 50	2x80	EP160/2-FeSa2½	C2-H, C3-M		
Anti-condensation paint systems for areas, where condensation and dripping-water problems occur like inner surfaces of turbine towers						
	Temacoat Primer GrafoTherm	80 250-410		C1, C2		

EXTERIOR STEEL SURFACES ABOVE THE WATER LINE IN OFF-SHORE AREAS (TURBINE TOWER, GEARBOX, ETC.)

System code	Paint system	DFT, μm	Type of the system	Corrosivity category		
NORSOK M-501	NORSOK M-501 - approved systems					
TP22	Temazinc 99 Temacoat GPL-S MIO Temadur 50	40 2x80 2x60	EPZn(R)EPPUR320/5-FeSa2½	C5-M-H		
TP123	Temazinc 99 Temacoat Primer Temathane PC 50	60 160	EPZn(R)EPPUR280/3-FeSa2½	C5-M-H		
Water-borne NORSOK M-501 - approved system						
TH53	Temazinc 99 Fontecoat EP 50 Beige Fontedur HB 80	60 2x80 60	EPZn(R)EPPUR280/4-FeSa2½	C5-M-H		

IMMERSED STEEL SURFACES (IMMERSED PART OF TOWERS, OTHER IMMERSED STEEL CONSTRUCTIONS)

System code	Paint system	DFT, μm	Type of the system	Corrosivity category
TE4	Temaline NL	2x250	EP500/2-FeSa2½	C5-I-H, C5-M-H, Im1, Im2, Im3

MAIN PROPERTIES OF THE PRODUCTS

WATER-BORNE PRODUCTS

Fontecoat EP50/ EP 50 Beige: A two-component, semi-gloss epoxy paint/primer provides very good resistance against mechanical and chemical stress. Can be used as a single-coat paint.

Fontedur HB 80: A high-built two-component, polyurethane topcoat with excellent gloss and colour retention.

SINGLE-COAT PAINTS CONTAINING ANTI-CORROSIVE PIGMENTS

Temadur HB 50/80: A two-component semigloss polyurethane paint with hardener aliphatic isocyanate provides excellent weathering and abrasion resistance. Suitable as a single-coat paint, and as a topcoat for epoxy/polyurethane systems exposed to weathering and/or chemical attack.

Temacoat 50: A two-component resin modified epoxy paint. Excellent as a single-coat paint, but can be also used as a primer, intermediate or finish coat on surfaces exposed to weathering, mechanical and chemical stress.

HIGH-SOLIDS SINGLE-COAT POLYUREA PAINTS, CONTAINING ANTI-CORROSIVE PIGMENTS

Temasolid SC 60: A two-component semi-gloss polyurea paint with hardener aliphatic isocyanate provides excellent weather and abrasion resistance.

Temasolid SC-F 80: A fast-drying two-component glossy polyurea paint with hardener aliphatic isocyanate provides excellent weather and abrasion resistance.

HIGH-SOLIDS EPOXY PRIMER

Temacoat Primer: A two-component high-solids resin modified epoxy paint, containing zinc phosphates.

PROVEN-IN-TIME ZINC-RICH PRIMER

Temazinc 99: A two-component, polyamide-cured zinc-rich epoxy paint, which provides cathodic protection of steel.

LOW-SOLVENT EPOXY FOR IMMERSION

Temaline NL: A two-component epoxy coating with low solvent content, which withstands +150°C dry heat and +60°C in immersion.





FUNCTIONAL ANTI-CONDENSATION COATING

GrafoTherm: A one-component water-borne, functional, anti-condensation coating for airless application. GrafoTherm is an ideal product, where condensation and dripping-water problems occur, e.g. for inner wind turbine surfaces.

TECHNICAL SUPPORT

Tikkurila provides technical support to its customers during design of projects and later on during producing, painting or assembling. Its experienced staff will be pleased to:

- help customers to find long-lasting solution
- give advice on surface preparation and suitable application methods
- provide full information on coatings specifications and test reports

ABOUT TIKKURILA

Tikkurila is the leading paints and coatings professional in the Nordic region and Russia. With our roots in Finland, we now operate in 16 countries. Our high-quality products and extensive services ensure the best possible user experience in the market.

Tikkurila is a strong player in water-borne technology. Company has modern very sophisticated water-borne products proven-in-time. Among others Tikkurila product range for steel surfaces various from traditional alkyd paints to modern high-tech single-coat polyurethanes including solvent-borne primers and topcoats, more environmentally friendly high-solids paints, solvent-free coatings, etc. The quality of the products is ensured by the Tikkurila operational system, based on the requirements of ISO 9001 and ISO 14001.