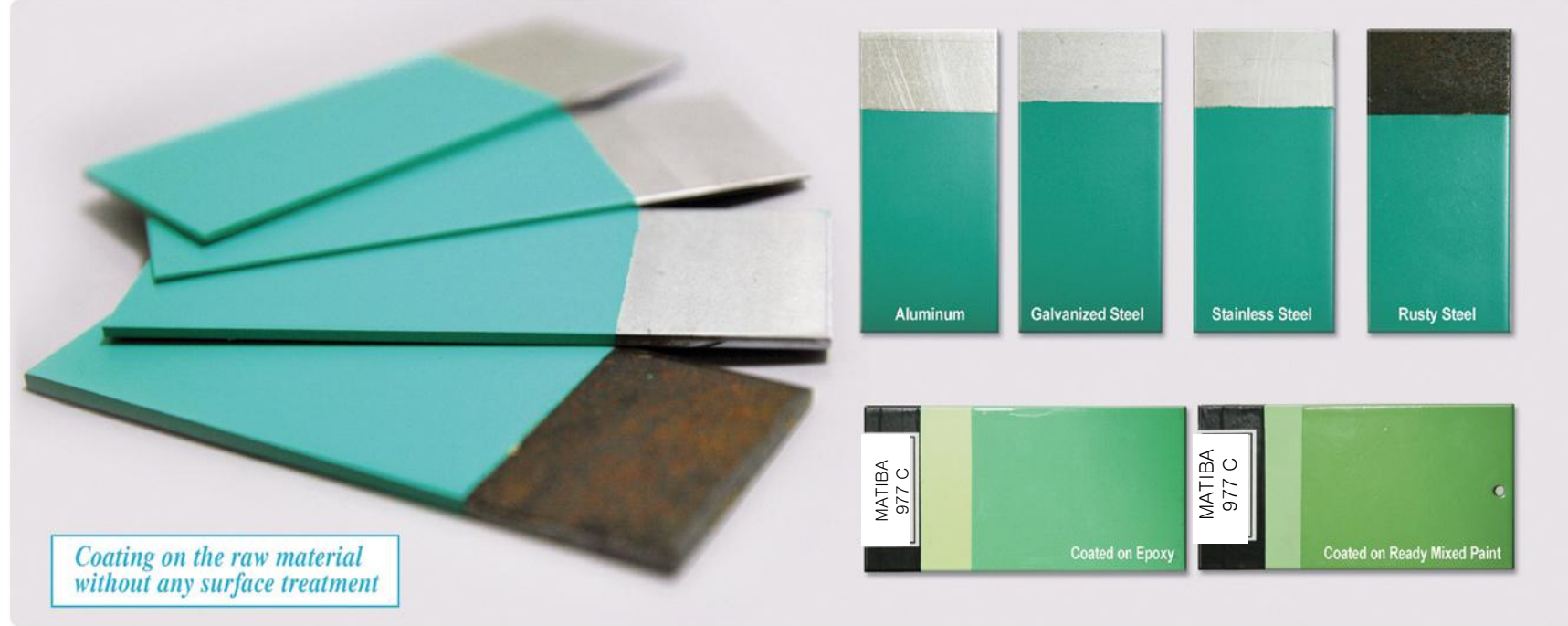


ETS MATIBA 977 FUNCTIONAL PAINTS



ETS' Innovation of Maintenance and Repair Coating



*Coating on the raw material
without any surface treatment*



Overcoming the difficulties for surface preparation

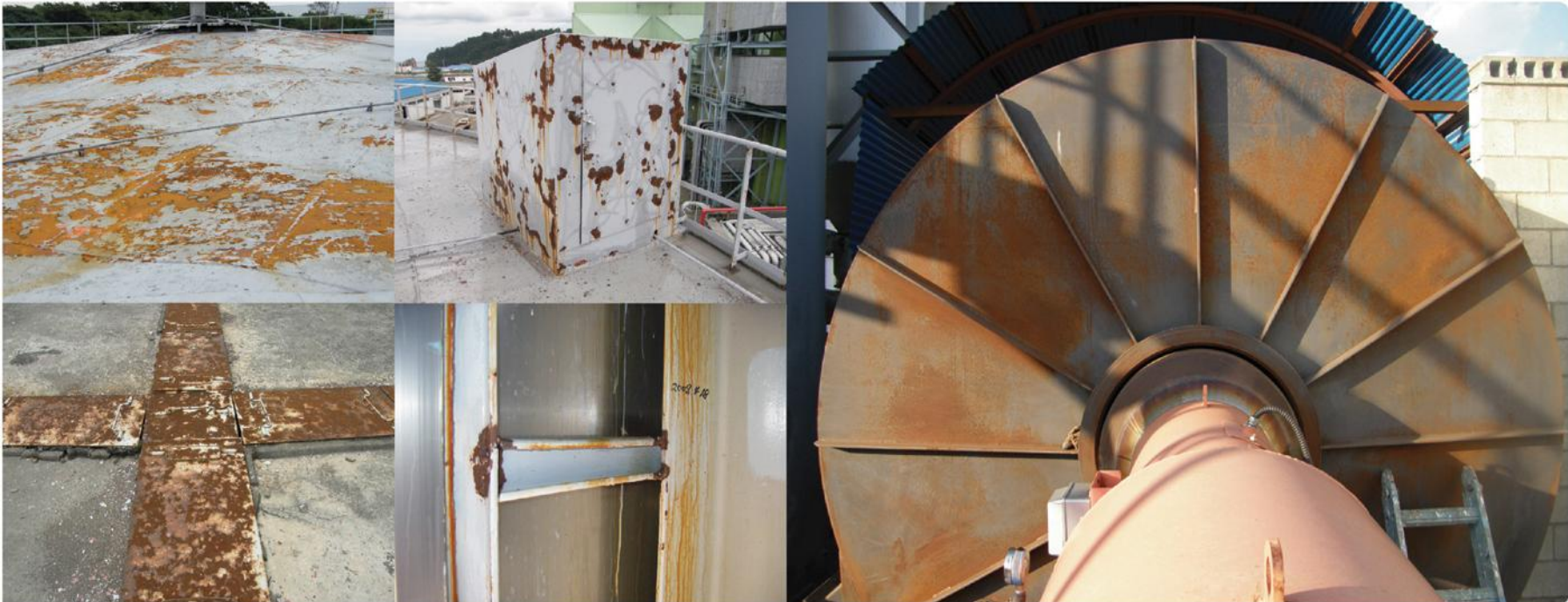
: The simplest surface preparation that only removes the loose old film and the aggregate type of (remarkable) rusts.

Obtaining compatibility with substrate material and old film.

- : Any old film including (alkyd-oil base) ready mixed paint.
- : Steel, non-ferrous metal, concrete structure.
- : Zinc, Galvanized sheet, Aluminum, Galvanized Pipe, PVDF coated panel, FRP, Plastic, etc.

Obtaining short application period and convenient application

- : Single coat application with single material: Various tailored functional coatings dependent upon substrate condition
 - > Coatings for wet/dewy substrate and underwater application, and waterproof coatings
 - > Super-high-temperature resistant coatings, and coatings for the structure under high voltage service, etc.
 - > Can coat under seawater.



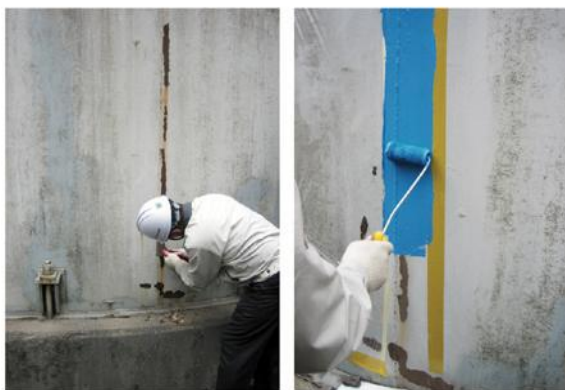
No sand blast / No primer coat

Finished Surface preparation

1) Remove the loose old film only
: Use spatulas, sandpaper or high pressure water washing, etc.

2) Remove the aggregate type of rusts only
: Do not remove surface rust, spot rust, mill scale

3) In the case that it is not possible to remove the aggregate type of rusts
: Touch up with ETS-Urethane MATIBA-977P before main coating



Product	Oper. Temp(°C)	Application/Type	Area	Thickness(um)
ETS-Urethane MATIBA -977C	Intermittence:120°C Continuity:100°C	Recoat : in/outdoor New coat : Final Coat	Steel/Concrete Structure, non-ferrous metal (Zinc, Galvanized, Aluminum & Stainless Steel, etc), PVDF and other coating panel, All of old film, &B ridge etc.	100
ETS-Urethane MATIBA-977W	Intermittence:120°C Continuity:100°C	Coatings for underwater, Waterproofing, wet/dewy and high humidity condition, No solvent	On/Underground tank (Oil, fresh water, sea water and compound etc.) Waste water treatment facility, seaside and wet/dewy/underwater structure etc.	250- 350
ETS-Urethane MATIBA-977E	Intermittence:120°C Continuity:100°C	Indoor Acid/Alkali/Salt/Oil resistance	Structure, inside of tank and inside of factory for chemicals resistance	125- 250 Non Solvent 250- 350
ETS-Urethane MATIBA -977H	Intermittence:300°C Continuity:250°C	High Temperature Heat Resistance	Steel/concrete chimney, high temperature duct, equipment, steam line and heating machine etc.	100
ETS-Urethane MATIBA-977HH	Intermittence:600°C Continuity:500°C	High Temperature Heat Resistance	Burner, radiator, boiler and high temperature etc.	50
ETS-Urethane MATIBA -977P	Intermittence:150°C Continuity:120°C	Stabilization of rust	Apply the heavy (extremly) rust area to stabilization (sticking) the rust before coat ETS-Urethane	n/a

<Caution> 1.Thickness shall be adjusted as site condition.



Can coat under dewy...



Description	Comparison item		Functional coatings	Existing standard coatings
Coating specification	Coating scheme	1st (Primer)	None	Epoxy type
		2nd (Finish)	ETS-Urethane MATIBA 977	Urethane type
	Surface preparation		Remove the loose old film	Remove the loose old film, rust and contaminations
	No of coat		1 coat-Spray, 2 Coat-Brush or roller	2 coats-Spray, 4 Coats-Brush or roller
	Dry Film Thickness (um)		75—100	150—200
Property of Application	Coating Period		1 day	3 days at least
	Surface preparation		Very simple	Comparatively strict
	Application convenience		Single coat with single coating material	Two coats with two coating materials
Property of Coating Material	Coating material Type		Functional silicon urethane type	Epoxy primer and urethane finish
	Functional pigment Contents		More than 35% in coating material (Ceramic, metallic and organic polymer types, etc.)	Almost no functional pigment
	Retained Functions (Functions tailored for customer need)		>Stabilization of rust and tight oxide >Improved penetration property into rust and old film >Improved adhesion power with any kind of substrate >Weather ability, acid and heat resistance, etc.	> Normal coatings property only



Description	Comparison Item	Functional Coatings	Existing Standard Coatings
Property of performance	Expected weather ability	More than 10 years <= use inorganic or ceramic pigment only	5-7 years use organic pigment together
	Chemical resistance	Applicable under the range of $2.5 < PH < 13$	$5 < PH < 10$
	Corrosion resistance (Rust stabilization function)	Excellent (Contains much functional pigments)	Almost no functional pigment
	Adhesion (M&R coating)	Excellent	Good
Economical effect (Comparative evaluation)	Surface preparation cost	50	100
	Coating application cost	50	100
	Coating material coat	100—150	100
	Total	200 –250	300
<p>"The basis of comparative evaluation : Set cost of existing coating as 100 and evaluate cost of function coatings compared with it * If design information and actual application cost comparison data (with other company's product) are required, please contact us. Those may be provided under request.</p> <p>ETS Urethane (MATIBA 977) material cost evaluation per applied area [M] 2 > Below 100° C conditions, application loss rate 30%, DFT 75um, solid contents 45% Required material quantity including application loss = 0,238 Ltr. / m2,</p>			

Overcome of Maintenance and Repair Coatings Functional Paintings (Coatings)



► Coating under water



Apply variable area both repair and new construction



► Before Coating

► After Coating

ETS MATIBA 977 **FUNKTIONAL COATS**



ETS EKOLOJİK TEKNOLOJİK TEMİZLİK ÇÖZÜMLERİ LTD.ŞTİ

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