

NATIONAL PAINT SYSTEMS

System	Rank of temperature °C	Atmosphere	Isolation	observe.	Grade of preparation Of surface	Rank of Profile of anchorage	Initial Layer	Layer Intermediate	Layer of Finish	average dry film thickness			
										Layer initial	Layer intermediate	Layer finish	TOTAL
1	-50<T<0	Rural, cost marine e industrial	WITH		NACE 1 /SSPC-SP5	1.5 - 2.0	Inorganic Fund Rich in Zinc			3.0			3.0
FLAMUKO	-50<T<0	Rural, cost marine e industrial	WITH		BORN 1 /SSPC-SP5	1.5 - 2.0	Carbozinc 11			3.0			3.0
2	0<T<65	Rural	WITHOUT		NACE 3 /SSPC-SP6	0.75-1	Alkyd Fund metal free heavy	Enamel alkyd	Enamel alquidiigco Color Code	1.5	1.5	1.5	4.5
FLAMUKO	0<T<65	Rural	WITHOUT		BORN 3 /SSPC-SP6	0.75-1	Fla-10-700	Car-302	Car-302	1.5	1.5	1.5	4.5
3A	65<T<93	Rural	WITHOUT		BORN 1 /SSPC-SP5	1.5 - 2.0	Epoxy Fund high thickness		Enamel polyurethane or color code	4.0		2.0	6.0
FLAMUKO	65<T<93	Rural	WITHOUT		BORN 1 /SSPC-SP5	1.5 - 2.0	Car-193 First		CAR-134	4.0		2.0	6.0
3B	65<T<93	Rural	WITH		BORN 1 /SSPC-SP5	1.5-2.0	Epoxy Fund high thickness		CAR-890	4.0		2.0	6.0
FLAMUKO	65<T<93	Rural	WITH		BORN 1 /SSPC-SP5	1.5-2.0	Car-193 First		CAR-890	4.0		2.0	6.0
4A	93<T<175	Rural, cost marine e industrial	WITHOUT		NACE 1 /SSPC-SP5	1.5-2.0	Background Inorganic Rich in zinc	Enamel alkyd siliconized	Enamel alkyd siliconized color code	2.5	1.5	1.5	5.5
FLAMUKO	93<T<175	Rural, cost marine e industrial	WITHOUT		BORN 1 /SSPC-SP5	1.5-2.0	Carbozinc 11	Car-1248	Car-1248	2.5	1.5	1.5	5.5
4B	93<T<175	Rural, cost marine e industrial	WITH		BORN 1 /SSPC-SP5	1.0-1.5	Background Inorganic Rich in zinc	Enamel alkyd siliconized	Enamel alkyd siliconized without Aluminum	2.5	1.5	1.5	5.5

FLAMUKO	93<T<175	Rural, cost marine e industrial	WITH		BORN 1 /SSPC-SP5	1.0-1.5	Carbozinc 11	Car-1248	Car-1248	2.5	1.5	1.5	5.5
4C	93<T<175	Rural, cost marine e industrial	WITH		BORN 1 /SSPC-SP5	1.5-2.0	epoxy phenolic High Temp.		epoxy phenolic High Temp.	4.0		4.0	8.0
FLAMUKO	93<T<175	Rural, cost marine e industrial	WITH		BORN 1 /SSPC-SP5	1.5-2.0	PHENOLINE 187		PHENOLINE S 187	4.0		4.0	8.0
5	175<T<400	Rural, cost marine e industrial	WITHOUT		BORN 1 /SSPC-SP5	1.5-2.0	<small>Background</small> Inorganic Rich in zinc	Aluminum Silicone Cured Amb.	Aluminum Silicone Cured Amb.	2.5	1.0	1.0	4.5
FLAMUKO	175<T<400	Rural, cost marine e industrial	WITHOUT		BORN 1 /SSPC-SP5	1.5-2.0	Carbozinc 11	Carboline 4631	Carboline 4631	2.5	1.0	1.0	4.5
6	175<T<538	Rural, cost marine e industrial	WITH		BORN 1 /SSPC-SP5	1.0 - 1.5	polysiloxane inorganic gray 1000°F		polysiloxane either inorganic gray 1000°F	2.0		2.0	4.0
FLAMUKO	175<T<538	Rural, cost marine e industrial	WITH		BORN /SSPC-SP5	1.0 - 1.5	N/A		N/A	2.0		2.0	4.0
7	400<T<538	Rural, cost marine e industrial	WITHOUT		BORN 1 /SSPC-SP5	1.0 - 1.5	polysiloxane inorganic gray 1000°F		polysiloxane either inorganic gray 1000°F	2.0		2.0	4.0
FLAMUKO	400<T<538	Rural, cost marine e industrial	WITHOUT		BORN 1 /SSPC-SP5	1.0 - 1.5	N/A		N/A	2.0		2.0	4.0
8	538<T<1100	Rural, cost marine e industrial	With or without Isolation		BORN 1 /SSPC-SP5	2.0 -2.5	polysiloxane inorganic gray 2000°F		polysiloxane either inorganic gray 2000°F	4.0		4.0	8.0
FLAMUKO	538<T<1100	Rural, cost marine e industrial	With or without Isolation		BORN 1 /SSPC-SP5	2.0 -2.5	N/A		N/A	4.0		4.0	8.0
9A	0<<93	Coastal Marine and industrial	WITHOUT	tanks spheres	BORN 1 /SSPC-SP5	1.5 - 2.0	<small>Background</small> Inorganic Rich in zinc	Epoxy Fund high thickness	Enamel epoxy or polyurethane or color code	2.5	4.0	2.0	8.5

FLAMUKO	0<<93	Coastal Marine and industrial	WITHOUT		i tall solid	1.5 - 2.0	Carbozinc 11	Car-193 First	Car-890 / car 134	2.5	4.0	2.0	8.5
9B	0<T<93	Coastal Marine and industrial	WITHOUT	Corrosion severe (atmosphere yes and no	BORN 1 /SSPC-SP5	1.5 - 2.0	Epoxy Fund high solid	Epoxy Fund high thickness	Enamel epoxy or polyurethane or color code	4.0	4.0	2.0	10
FLAMUKO	0<T<93	Coastal Marine and industrial	WITHOUT		BORN 1 /SSPC-SP5	1.5 - 2.0	Car-193 First	car-890	Car-890 / car 134	4.0	4.0	2.0	10
10	0<T<93	Coastal Marine and industrial	With Isolation		BORN 1 /SSPC-SP5	1.5 - 2.0	Background Inorganic Rich in zinc	High Epoxy Thickness	Enamel epoxy without Aluminum	2.5	4.0	2.0	8.5
FLAMUKO	0<T<93	Coastal Marine and industrial	With Isolation		BORN 1 /SSPC-SP5	1.5 - 2.0	Carbozinc 11	Car-890	Car-890	2.5	4.0	2.0	8.5
eieven		Coastal Marine and industrial		Pipe of Galvanized steel	SSPC-SP1 SSPC-SP2	Does not apply	fund for surfaces not ferrous tolerant of surface		Enamel polyurethane or Color Code	2.0-4.0		2.0	4.0-6.0
FLAMUKO		Coastal Marine and industrial	With Isolation		SSPC-SP1 SSPC-SP2	Does not apply	Car-890		Car-134	2.0-4.0		2.0	4.0-6.0
12	0<T<60	Inside tanks		Internal	BORN 1 /SSPC-SP5	2.0 - 2.5	100% epoxy solid		100% epoxy solid	8		8	16
FLAMUKO	0<T<60	Inside tanks			BORN 1 /SSPC-SP5	2.0 - 2.5	Car-890		Car-890	8		8	16
13	0<T60			Internal	BORN 1 /SSPC-SP5	1.5 - 2.0	Covering epoxy for water potable		coating or Epoxy for drinking water	4.0		4.0	8
FLAMUKO	0<T60				BORN 1 /SSPC-SP5	1.5 - 2.0	car-891		car-891	4.0		4.0	8
14	0<T<93			Internal	BORN 1 /SSPC-SP5	1.5 - 2.0	Phenolic Epoxy for interior of tank		epoxy phenolic for inside tank	6.0		6.0	12.0
FLAMUKO	0<T<93				BORN 1 /SSPC-SP5	1.5 - 2.0	Phenoline 1205		Phenoline 1205	6.0		6.0	12.0

fifteen	0<T<60	Coastal Marine and industry Zone of splash		External , specific products of immersion	BORN 1 /SSPC-SP5	1.5 - 2.0	modified epoxy 80% solids		epoxy modified 80% of solid	8.0		8.0	16
FLAMUKO	0<T<60	Coastal Marine and industry Zone of splash			BORN 1 /SSPC-SP5	1.5 - 2.0	Car-890		Car-890	8.0		8.0	16
16A	T<288			thermos-indication	BORN 1 /SSPC-SP5	1.5 - 2.0	Inorganic Fund Rich in Zinc	Paint indicator of high temp.	Paint indicator of high temp.	2.5	1.5	1.5	5.5
FLAMUKO	T<288				BORN 1 /SSPC-SP5	1.5 - 2.0	Carbozinc 11	Not available	Not available	2.5	1.5	1.5	5.5
16B	T<204			thermos-indication	BORN 1 /SSPC-SP5	1.5 - 2.0	Inorganic Fund Rich in Zinc	Paint indicator of high temp.	paint Ura indicator of high temp.	3	1.5	1.5	6
FLAMUKO	T<204				BORN 1 /SSPC-SP5	1.5 - 2.0	Carbozinc 11	Not available	Not available	3.0	1.5	1.5	6.0
17	25<T<93			Ind. By effect chemical	SSPC-SP2 PSC SWP 3		Original from Team Line	Enamel indicator Acid Hydrofluoric	Enamel indicator Acid Hydrofluoric	Original Team Line	1.5	1.5	Original from Team Line +3
FLAMUKO	25<T<93				SSPC-SP2 PSC SWP 3		Original from Team Line	N/A	N/A	Original Team Line	1.5	1.5	Original from Team Line +3
18	UP TO 60	Coastal Marine and Industrial	With Isolation	treatment abrasive with oxide of aluminum	SSPC-SP 16	0.75-1.0	epoxyi for High thickness			5.0			5.0
FLAMUKO	UP TO 60	Coastal Marine and Industrial	With Isolation		SSPC-SP 16	0.75-1.0	Car-890			5.0			5.0
18B	UP TO 150	Coastal Marine and Industrial	With Isolation	treatment abrasive with oxide of aluminum	SSPC-SP 16	0.75-1.0	Phenolic Epoxy		epoxy phenolic	4.0		4.0	8.0
FLAMUKO	UP TO 150	Coastal Marine and Industrial	With Isolation		SSPC-SP 16	0.75-1.0	Phenoline 1205		Phenoline 1205	4.0		4.0	8.0

18C	UP TO 205	Coastal Marine and Industrial	With Isolation	treatment abrasive with oxide of aluminum	SSPC-SP 16	0.75-1.0	Phenolic Epoxy		epoxy phenolic	4.0		4.0	8.0
FLAMUKO	UP TO 205	Coastal Marine and Industrial	With Isolation		SSPC-SP 16	0.75-1.0	Phenoline 1205		Phenoline 1205	4.0		4.0	8.0
18D	HSTA 540	Coastal Marine and Industrial	With Isolation	treatment abrasive with oxide of aluminum	SSPC-SP 16	0.75-1.0	silicone Cured environmental. Silicone modified		silicone Cured Environmental	1.5		1.5	3.0
FLAMUKO	HSTA 540	Coastal Marine and Industrial	With Isolation		SSPC-SP 16	0.75-1.0	Carboline 4631		Carboline 4631	1.5		1.5	3.0

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System	Rank of temperature °C	Atmosphere	Isolation	observe.	Grade of preparation Of surface	Rank of Profile of anchorage	Initial Layer	Layer Intermediate	Layer of Finish	average dry film thickness				interval of time of drying
										Layer initial	Layer intermediate	Layer finish	TOTAL	
M1	-50<T<0	rural coastal marine e industrial	With isolation		SSPC-SP5	1.5-2.0	Background inorganic Rich in Zinc			3.0		3.0	6.0	Does not apply
FLAMUKO	-50<T<0	rural coastal marine e industrial	With isolation		SSPC-SP5	1.5-2.0	Carbozinc 11			3.0		3.0	6.0	Does not apply
m2	0<T<65	Rural	Without Isolation		SSPC-SP3 SSPC-SP11	Does not apply 1.0	Alkyd Fund metal free heavy		Enamel alkyd color code	1.5	1.5	1.5	4.5	12 to 72
FLAMUKO	0<T<65	Rural	Without Isolation		SSPC-SP3 SSPC-SP11	Does not apply 1.0	FLA-10-700		CAR-302	1.5	1.5	1.5	4.5	12 to 72
M3A	0<T<93	Rural	Without Isolation		SSPC-SP3 SSPC-SP11 SSPC-SP12	Does not apply 1.0 Does not apply	High Epoxy Primer tolerant thickness of surfaces		Enamel Polyurethane color code	4.0		2.0	6.0	8 to 72
FLAMUKO	0<T<93	Rural	Without Isolation		SSPC-SP3 SSPC-SP11 SSPC-SP12	Does not apply 1.0 Does not apply	Car-193		Car-134	4.0		2.0	6.0	8 to 72
M3B	-65<T<93	Rural	With Isolation		SSPC-SP 11 SSPC-SP 12	1.0 Does not apply	High Epoxy Primer tolerant thickness of surfaces		Epoxy Enamel without pigments of aluminum	4.0		2.0	6.0	8 to 72
FLAMUKO	-65<T<93	Rural	With Isolation		SSPC-SP 11 SSPC-SP 12	1.0 Does not apply	Car-193		Car-890	4.0		2.0	6.0	8 to 72
M4A	93<T<175	rural coastal marine e industrial	Without Isolation		SSPC-SP 11	1.0	acrylic enamel requested	Enamel Acrylic siliconized	Enamel Acrylic siliconized color code	1.5	1.5	1.5	4.5	24 to 48

FLAMUKO	93<T<175	rural coastal marine e industrial	Without Isolation		SSPC-SP 11	1.0	Car-1248	Car-1248	Car-1248	1.5	1.5	1.5	4.5	24 to 48
M4B	93<T<175	rural coastal marine e industrial	With isolation		SSPC-SP 11	1.0	acrylic enamel requested	Enamel Acrylic siliconized	Enamel Acrylic Siliconized Without pigment Aluminum	1.5	1.5	1.5	4.5	24 to 48
FLAMUKO	93<T<175	rural coastal marine e industrial	With isolation		SSPC-SP 11	1.0	Car-1248	Car-1248	Car-1248	1.5	1.5	1.5	4.5	24 to 48
M4C	93<T<175	rural coastal marine e industrial	With isolation		SSPC-SP 11	1.0	Phenolic Epoxy high temperature and Isolation		epoxy high phenolic temperature and Isolation	4.0	0	4.0	8.0	8 to 72
FLAMUKO	93<T<175	rural coastal marine e industrial	With isolation		SSPC-SP 11	1.0	Carboline-Phenoline 368		Carboline-Phenoline 368	4.0	0	4.0	8.0	8 to 72
M5	175<T<400	rural coastal marine e industrial	Without Isolation		SSPC-SP 11	1.0	aluminum silicone Cured environmental	aluminum silicone Cured environmental	Aluminum Silicone Cured environmental	1.0	1.0	1.0	3.0	24 to 72
FLAMUKO	175<T<400	rural coastal marine e industrial	Without Isolation		SSPC-SP 11	1.0	Car-4631	Car-4631	Car-4631	1.0	1.0	1.0	3.0	24 to 72
M6	175<T<538	rural coastal marine e industrial	With isolation		SSPC-SP 11	1.0	polysiloxane inorganic gray 1000°F		polysiloxane inorganic gray 1000°F	2.0		2.0	4.0	2 to 8
M7	400<T<538	rural coastal marine e industrial	Without isolation		SSPC-SP 11	1.0	polysiloxane inorganic gray 1000°F		polysiloxane inorganic gray 1000°F	2.0		2.0	4.0	2 to 8
M8	538<T<1100	rural coastal marine e industrial	With or without Isolation		SSPC-SP 11	1.0	polysiloxane inorganic gray 2000°F		polysiloxane inorganic gray 2000°F	4.0		4.0	8.0	2 to 8
FLAMUKO							Not available		No Available					

M9A	0<T<93	coastal marine e industrial	Without Isolation		SSPC-SP 3 SSPC-SP 11	Does not apply 1.0	Organic Fund Rich in Zinc	epoxy background high thickness	Enamel polyurethane or Color code	2.5	4.0	2.0	8.5	24 to 72
FLAMUKO	0<T<93	coastal marine e industrial	Without Isolation		SSPC-SP 3 SSPC-SP 11	Does not apply 1.0	Car-859	Car-193 first	Car-134	2.5	4.0	2.0	8.5	24 to 72
M9B	0<T<93	coastal marine e industrial	Without Isolation		SSPC-SP 12	Does not apply	high epoxy tolerant thickness of surfaces	epoxy background high thickness	Enamel polyurethane or Color code	5.0	5.0	2.0	12	24 to 72

FLAMUKO	0<T<93	coastal marine e industrial	Without Isolation		SSPC-SP 12	Does not apply	Car-890	Car-193 first car 890	Enamel polyurethane or Color code	5.0	5.0	2.0	12	24 to 72
M9C	0<T<93	coastal marine e industrial	Without Isolation		SSPC-SP1 SSPC-SP2 SSPC-SP12	Does not apply		epoxy background high thickness tolerant of surfaces	Enamel polyurethane or Color code		5.0	2.0	7.0	24 to 72
FLAMUKO	0<T<93	coastal marine e industrial	Without Isolation		SSPC-SP1 SSPC-SP2 SSPC-SP12	Does not apply		Car-890	Car-134		5.0	2.0	7.0	24 to 72
M9D	0<T<93	coastal marine e industrial	Without Isolation		SSPC-SP1 SSPC-SP2 SSPC-SP12	Does not apply			Enamel polyurethane or Color code			2.0	2.0	24 to 72
FLAMUKO	0<T<93	coastal marine e industrial	Without Isolation		SSPC-SP1 SSPC-SP2 SSPC-SP12	Does not apply			Car-134			2.0	2.0	24 to 72
M10A	0<T<93	coastal marine e industrial	With Isolation		SSPC-SP 3 SSPC-SP 11	Does not apply 1.0	Organic Fund Rich in Zinc	epoxy background high thickness	Epoxy Enamel without Pigmento of aluminum	2.5	4.0	2.0	8.5	24 to 72
FLAMUKO	0<T<93	coastal marine e industrial	With Isolation		SSPC-SP 3 SSPC-SP 11	Does not apply 1.0	CAR-859	Car-890	Car-890	2.5	4.0	2.0	8.5	24 to 72
M10B	0<T<93	coastal marine e industrial	With Isolation		SSPC-SP 11	Does not apply	High Thickness Epoxy Tolerant to surfaces	epoxy background high thickness	Epoxy Enamel without Pigmento of aluminum	5.0	5.0	2.0	12.0	24 to 72
FLAMUKO	0<T<93	coastal marine e industrial	With Isolation		SSPC-SP 11	Does not apply	CAR-890	Car-890	CAR-890	5.0	5.0	2.0	12.0	24 to 72

M11A		coastal marine e industrial			SSPC-SP 2 SSPC-SP 12		fund for surfaces not ferrous		Enamel Polyurethane color code	2.0		2.0	4	8 to 72
FLAMUKO		coastal marine e industrial			SSPC-SP 2 SSPC-SP 12		Car-890		Car-134	2.0		2.0	4	8 to 72
M11B		coastal marine e industrial			SSPC-SP 2 SSPC-SP 12				Enamel Polyurethane color code			4	4	8 to 72
FLAMUKO		coastal marine e industrial			SSPC-SP 2 SSPC-SP 12				CAR-134			4	4	8 to 72
M12		coastal marine e industrial			SSPC-SP 11	1.0	100% epoxy solids (Zones Punctual)		100% epoxy solid	8.0		8.0	16	8 to 72
FLAMUKO		coastal marine e industrial			SSPC-SP 11	1.0	CAR-891		CAR-891	8.0		8.0	16	8 to 72
M13	0<T<60				SSPC-SP 11	1.0	Covering epoxy for water potable		coating or epoxy for drinking water	4.0		4.0	8.0	24-48
FLAMUKO	0<T<60				SSPC-SP 11	1.0	CAR-891		CAR-891	4.0		4.0	8.0	24-48
M14	0<T<93				SSPC-SP 11	1.0	Phenolic Epoxy for interior of tank		epoxy phenolic for inside tank	6.0		6.0	12.0	12-712
FLAMUKO	0<T<93				SSPC-SP 11	1.0	Car - Phenoline 1205		Car-Phenoline 1205	6.0		6.0	12.0	12-712
M15	0<T<60	marine coastal and industry, Zone of splash		external the products for this system they must be specified for service of immersion	NACE 1 / SSPC-SP5	2.0-2.5	Modified Epoxy > 80% solids		epoxy Modified > 80% of solid	8.0		8.0	16	
FLAMUKO	0<T<60	marine coastal and industry, Zone of splash		external the products for this system they must be specified for service of immersion	BORN 1 / SSPC-SP5	2.0 - 2.5	CAR-890		CAR-890	8.0		8.0	16	

16A3	T>288			Thermos-indication	NACE 1 / SSPC-SP5	1.5-2.0	Inorganic Fund Rich in Zinc	Paint indicator of high temperature	Paint indicator of high temperature	2.5	1.5	1.5	5.5	
FLAMUKO	T>288			Thermos-indication	NACE 1 / SSPC-SP5	1.5-2.0	Carbozinc 11	N/A	N/A	2.5	1.5	1.5	5.5	

16B	T>204			Thermos-indication	NACE 1 / SSPC-SP5	1.5-2.0	Inorganic Fund Rich in Zinc	Paint indicator of high temperature	Paint indicator of high temperature	2.5	1.5	1.5	6.0	
FLAMUKO	T>288			Thermos-indication	NACE 1 / SSPC-SP5	1.5-2.0	Carbozinc 11	N/A	N/A	2.5	1.5	1.5	6.0	
M17	25<T<93			indication by effect chemical	SSPC-SP 2 PSC-SWP3		Original from Equipment /Line	Enamel indicator Acid Hydrofluoric	Enamel indicator Acid Hydrofluoric	Original Team /Line	1.5	1.5	Original from Equipment /Line +3	
FLAMUKO	25<T<93			indication by effect chemical	SSPC-SP 2 PSC-SWP3		Original from Equipment /Line	N/A	N/A	Original Team /Line	1.5	1.5	Original from Equipment /Line +3	
M18A	Up to 60	Coastal marine e industrial	With Isolation	Treatment abrasive with oxide of aluminum	SSPC-SSP16	0.75 - 1.0	Epoxy Al to Thickness				5.0		5.0	
FLAMUKO	Up to 60	Coastal marine e industrial	With Isolation	Treatment abrasive with oxide of aluminum	SSPC-SSP16	0.75 - 1.0	CAR-890				5.0		5.0	
M18B	up to 150	Coastal marine e industrial	With Isolation	Treatment abrasive with oxide of aluminum	SSPC-SSP16	0.75 - 1.0	Phenolic Epoxy		epoxy phenolic		4.0		4.0	8.0
FLAMUKO	up to 150	Coastal marine e industrial	With Isolation	Treatment abrasive with oxide of aluminum	SSPC-SSP16	0.75 - 1.0	Phenoline 1205		Phenoline 1205		4.0		4.0	8.0
M18C	up to 205	Coastal marine e industrial	With Isolation	Treatment abrasive with oxide of aluminum	SSPC-SSP16	0.75 - 1.0	Phenolic epoxy or novolac		epoxy phenolic or novolac		4.0		4.0	8.0

FLAMUKO	up to 205	Coastal marine e industrial	With Isolation	Treatment abrasive with oxide of aluminum	SSPC-SSP16	0.75 - 1.0	Phenoline 1205		Phenoline 1205	4.0		4.0	8.0	
M18D	Up to 540	Coastal marine e industrial	With Isolation	Treatment abrasive with oxide of aluminum	SSPC-SSP16	0.75 -1.0	silicone environmental curing silicone modified		silicone cured environmental silicone modified	1.5		1.5	3.0	
M18D	Up to 540	Coastal marine e industrial	With Isolation	Treatment abrasive with oxide of aluminum	SSPC-SSP16	0.75 -1.0	Carboline 4631		Carboline 4631	1.5		1.5	3.0	