Capalac Dickschichtlack

High solid, anti-corrosive metal protective enamel for priming, intermediate and finishing coats. For exterior and interior use.

Certified corrosion protection for steel and galvanised steel according to DIN EN ISO 12944-6.



	Product Description
Field of Application	1-pot-enamel for protective thick-film coatings and colourful designing of building components made of iron, steel, zinc, galvanised steel, aluminium, copper, unplastizised (rigid) PVC, wooden parts interiors and dimensionally stable exterior wood components. Corrosion protection for iron and steel. Unsuitable for coatings on roofing and anodised aluminium. Do not use white colour shades on heating systems in order to avoid yellowing (apply Capalac Heizkörperlack /radiator enamel).
Material Properties	 Excellent adhesion. High opacity (hiding/covering power) on component surfaces and edges. Durable protection due to excellent weather resistance. High solids content allows a better dry film thickness. 1-Pot-Enamel System: Facilitates priming, intermediate and finishing coats with one product. Test report for corrosiveness category C4, duration of conservation "long" on steel and galvanised steel according to DIN EN ISO 12944 part 6. Available as enamel and mica types. Tintable via ColorExpress in numerous colour shades. Free of aromatic hydrocarbons.
Material Base / Vehicle	Epoxy ester with non-aromatic solvents.
Packaging/Package Size	 White, Mica and RAL 9006: 750 ml, 2.5 litres, 10 litres and 35 kg ColorExpress: 1 litre, 2.5 litres and 10 litres
Colours	 Standard: Enamel: White Mica types: Mica and approx. RAL 9006 ColorExpress: A multitude of enamel and mica tones can be tinted via the ColorExpress stations, e.g. RAL 9007. When colour shades with a lower opacity (hiding/covering power) are used, e.g. red, orange or yellow, it is advisable to apply a first (priming) coat of product, tinted in a matching priming system colour, available via ColorExpress.
	Note: If necessary, apply one transparent sealing coat of Capalac Kunstharz-Klarlack (clear coat) on intensively or dark tinted Capalac Dickschichtlack coatings to avoid a slight abrasion of pigments. Mica types are corrosion-inhibiting coatings. Their surface is matt and semi-rough according to RAL and German National Railways Standard (TL/TP-KOR). Only suitable for interior use: An additional transparent sealing coat of Capalac Kunstharz-Klarlack leads to a more stressable interior surface and cleaning is facilitated.





	Colour Changes Occur With Mica Types: In comparison to printed colour fan decks. Between Mica types of different manufacturers. In case of repairs. When different coating methods are used (e.g. paint brush, roller or spray application, powder coating and liquid coating).											
	Colour Resistance according to BFS Data Sheet No. 26: Binder: Class B Pigmentation: Group 1 to 3, depending on the colour.											
Gloss Level	 Enamel types: Silk-matt/semi-gloss (mid sheen) Mica shades: Matt (flat) 											
Storage	Keep in a cool place, in tightly closed cans.											
Technical Data	■ Density: Approx. 1.3 g/cm ³											
Suitability according to	Interior 1	Inter	rior 2	Interior 3	Exterior 1	Exterior 2						
Technical Information No. 606 Definition of Application Areas	+		+	+	+	+						
	(-) inapplica	able / (0) c	of limited	suitability / (+) suitable							
	Applica	tion										
Suitable Substrates	Dimensionally stable wood component parts, iron, steel, zinc, aluminium, unplastizised (rigid) PVC, and sound existing paint coatings. The substrate must be clean, sound/stable, dry, and free all materials that may prevent good adhesion Maximum permissible moisture content in dimensionally stable wood: 13 %. Do not use for coatings on roofing and anodised aluminium.											
Substrate Preparation												
	conditions (e	e.g. indoors	s – witho	ut condensati	ion water or age		2944-4. At low stress s) the surface may					
	Zinc, Galvar Wash with M according to	lultistar cle	aner usi	ng sanding pa lo. 5.	ad or with light a	ammonia solution	or by sweep spraying					
	Unplastizise Wash with M Sheet No. 22	lultistar cle	PVC: eaner usi	ng sanding pa	ad or with light a	ammonia solution	according to BFS Data					
	Aluminium: Wash with N sanding pad	lultistar cle	aner usi to BFS I	ng sanding pa Data Sheet N	ad or with nitro- o. 6.	thinner or phosph	oric acid solution using					
	Copper: Wash with M	lultistar cle	aner usi	ng sanding pa	ad.							
	Existing En Roughen (sa	amel Coat and) the su	t ings: Irface slig	ghtly and/or tr	eat with alkali.	Remove unsound	/unstable coatings.					
Method of Application	Guidelines	for Spray	Applicat	tion:								
			Ø Noz	zle	Pressure	Advice						
	Airless	Enamel	0.009 -	- 0.013 inch	180 – 200 bar	Membrane pump	and piston pump					
		Mica	0.015 -	- 0.019 inch	180 – 200 bar	Only to be used w	rith piston pump					

Surface Coating System

Substrate	Use	Substrate Preparation	Impregnation	Priming Coat	Intermediate Coat	Finishing Coat						
Wood, derived timber products	interior	roughening	_									
Dimensionally stable wood	exterior	BFS Nr. 18	Capalac Holz- Imprägniergrund									
Iron, steel	interior/ exterior	derust/degrease	_									
Zinc (galvanised substrates)	interior/ exterior	BFS Nr. 5	_	Capalac Dickschichtlack	if required	Capalac						
Aluminium	interior/ exterior	BFS Nr. 6	_		Capalac Dickschichtlack	Dickschichtlack						
Copper	interior/ exterior	Multistar/sanding pad	-									
Unplasticised/rigid PVC	interior/ exterior	BFS Nr. 22	-									
Sound existing coats of paint ¹⁾	interior/ exterior	roughening/alkali treatment	Prepare and prime defe substrate	cts according to the								
•												

Application:

Capalac Dickschichtlack can be applied by brush, roller or spraying equipment. Stir well before use and thin with white spirit, if necessary. Mica paints should be applied with spraying equipment in order to achieve an even surface. A blushing effect may occur on large areas, e.g. when application is divided into multiple work steps.

Corrosion Protection on Steel with Capalac Dickschichtlack:

Coating systems for corrosiveness categories C2, C3, C4 according to DIN EN ISO 12944-5 Surface preparation: Blasting to purity grade SA 21/2 (DIN EN ISO 12944-4)

							Total Reference	Co	Corrosiveness Category																																							
No.	Priming Coat	μm ¹⁾	Intermediate Coat	μm ¹⁾	Finishing Coat	μm ¹⁾	Coating	C2	2)		C3	C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		C3 ²⁾		32)		C4		.2)
							Thickness μm ¹⁾	L	м	н	L	м	н	L	м	н																																
1	Capalac- Dickschichtlack e.g. RAL 7036	60			Capalac- Dickschichtlack e.g. RAL 7036	60	120																																									
2	Capalac- Dickschichtlack Mica	80			Capalac- Dickschichtlack Mica	80	160																																									
3	Capalac- Dickschichtlack e.g. RAL 7036	60	Capalac- Dickschichtlack e.g. RAL 7036	60	Capalac- Dickschichtlack e.g. RAL 7036	60	180																																									
4 ³⁾	Capalac- Dickschichtlack Mica	80	Capalac- Dickschichtlack e.g. RAL 7036	60	Capalac- Dickschichtlack e.g. RAL 7036	60	200																																									
5 ³⁾	Capalac- Dickschichtlack Mica	80	Capalac- Dickschichtlack Mica	80	Capalac- Dickschichtlack Mica	80	240																																									
1)	Reference lay	er thio	kness	1																																												
2)	Explanations	for co	rrosiveness categ	ories s	see below.																																											
3)	With verificati	on of s	suitability (Test Re	eport)	according to DIN	EN IS	O 12944 part 6 f	or s	yste	em	No	. 5.																																				
Blue=	Suitable																																															
White	 Unsuitable 																																															

Corrosion Protection on Galvanised Steel with Capalac Dickschichtlack (Duplex System): Coating system for corrosiveness category C2, C3, C4 according to DIN EN ISO 12944-5 Surface preparation: "Sweepen" · slightly grit/shot- blasting (DIN EN ISO 12944-4)

							Total	Co	Corrosiveness Category							
No.	Priming Coat	μm ¹⁾	Intermediate Coat	μm	Finishing Coat	μm	Reference Coating	C2	2		C3	3		C4	Ļ	
	oout						Thickness μm	L	м	н	L	м	н	L	м	н
1*	Capalac- Dickschichtlack e.g. RAL 5010	60			Capalac- Dickschichtlack e.g. RAL 5010	60	120									
2*	Capalac- Dickschichtlack Mica	80			Capalac- Dickschichtlack Mica	80	160									

Explanations:

Corrosiveness categories (see DIN EN ISO 12944 part 2)

Category/ Loads	Examples for typical environmental conditions or loads in moderate climate.										
	exterior	interior									
C2 Low	Atmospheres with low pollution. In the majority of cases rural areas.	Unheated buildings where condensation may occur, e.g. storehouses, sports halls.									
C3 Middle (Moderate)	Atmosphere in cities and industrial areas, moderate pollution caused by sulphur dioxide. Coastal areas with low salt loads.	Production rooms with a high humidity and some air pollution, e.g. facilities for the production of foods, laundries, breweries, creameries.									
C4 High	Industrial areas and coastal areas with moderate salt loads.	Chemical facilities, swimming pools, boathouses above sea water.									

Duration of Protective Effect:

(See DIN EN ISO 12944 part 1 and part 5) Duration of protective effect: This means the lifetime of a coating system up to the first repair. The time spans, mentioned below, are based on experience. They enable the customer to specify a repair program under economic factors. Duration of protective effect in years (no warranty time !)

Time Period	Duration of protective effect (years)
Low (L)	2–5
Middle (M)	5–15
High (H)	over 15

Consumption

Jsed Tools	Material Type	Consumption/m ²	Average Consumption/m ²	Average Wet Film Thickness	Average Dry Film Thickness
Brush / Roller	Enamel type (unicoloured)	100–125 ml	approx. 115 ml	approx. 115 µm	approx. 65 µm
	Mica and DB colours	125–160 ml	approx. 140 ml	approx. 140 μm	approx. 80 µm
	RAL 9006	100–125 ml	approx. 115 ml	approx. 115 µm	approx. 60 μm
Spraying Equipment	Enamel type (unicoloured)	100–125 ml	approx. 115 ml	approx. 115 µm	approx. 65 µm
	Mica and DB colours	150–180 ml	approx. 160 ml	approx. 160 µm	approx. 80 µm
	RAL 9006	125–150 ml	approx. 135 ml	approx. 135 µm	approx. 70 μm

These reference values for consumption and layer thickness may vary depending on the nature and condition of the substrate. The exact consumption is best established by a trial coating (test area) on site.

Application Conditions	Lower Temperature Limi +5 °C for product, substra	t for Applicatio	n and Drying: air.								
Drying/Drying Time	at 20 °C and 65% relative humidity	dust dry	touch dry	recoatable	completely dry						
	after hours 4 8 24 approx. 5 d										
	Lower temperatures and h Härter (hardener) leads to				volume of Capalac PU						
Tool Cleaning	Immediately after use with	white spirit.									
	Advice										
Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	Capalac Dickschichtlack base white and transparent: Flammable liquid and vapour. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking. Keep out of reach of childrer Keep away from open flames/hot surfaces No smoking. Do not breathe vapours/ spray. Do not get eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Avoid release to the environment. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Bis(1,2,2,6,6-pentamethyl-4- piperidyl)sebacate, Cobalto-neodecanato, Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. Capalac Dickschichtlack base EG:										
	effects. Repeated exposur sparks, open flames and c outdoors or in a well-ventil on clothing. IF SWALLOW	Flammable liquid and vapour. May cause drowsiness or dizziness. Toxic to aquatic life with long effects. Repeated exposure may cause skin dryness or cracking. Keep away from heat, hot surfa sparks, open flames and other ignition sources. No smoking. Do not breathe vapours/ spray. Use outdoors or in a well-ventilated area. Avoid release to the environment. Do not get in eyes, on sk on clothing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate. May produ									
Disposal Materials and all related packaging must be disposed of in a safe way in accordance with the requirements of the local authorities. Particular attention should be made to removing wastage site in compliance with standard construction site procedures. In Germany: Only completely emptied clean cans/containers should be given for recycling. In containers with residues of liquid product via waste collection point accepting old paints and Dispose dried/hardened product residues as construction site/demolition/municipal or domestical actions of the standard product residues as construction site/demolition/municipal or domestical actions of the standard product residues as construction site/demolition/municipal or domestical actions of the standard product residues as construction site/demolition/municipal or domestical actions of the standard product residues as construction site/demolition/municipal or domestical actions of the standard product residues as construction site/demolition/municipal or domestical actions of the standard product residues as construction site/demolition/municipal or domestical actions of the standard product residues as construction site/demolition/municipal or domestical actions of the standard product residues as construction site/demolition/municipal or domestical actions of the standard product residues as constructions at the standard product product residues as constructions and product											
EU limit value for the VOC content	of this product (category A	vi): 500 g/l (2010)). This product co	ntains max. 500 g/	I VOC.						
Product Code Paints and Enamels	M-LL01										
Substances of Content - Declaration	Epoxy resin ester, titanium glycol ether, additives.	n dioxide, coloure	ed pigments, meta	l effect pigments, r	nineral fillers, aliphatics						
Further Details	See Safety Data Sheet (M	ISDS).									

Customer Service Centre

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