AQUAFLOX FAST

Series 2186

Semi-glossy, very quick-air-drying, water-based epoxy enamel specific as anti-dust coating for industrial floors and walls made of concrete and ceramic tiles

TECHNICAL FEATURES

Semi-glossy, water-based epoxy enamel, specific as anti-dust coating for industrial concrete floors and characterized by high speed of polymerization. The treated surface is dustproof and impermeable to oils and greases. It is also resistant to petrol and acid and basic solutions. Thanks to the high adhesion performance, defined by the cross cut method and by measuring the pull-off traction, the product is also applicable on tiles in fine porcelain and glazed stoneware, in monoporous cladding, in glass fiber mosaic, single and double fired.

APPLICATION FIELD

Semi-glossy, water-based epoxy enamel, ideal as ultrafast final coat for concrete floors, walls, ceilings and cement surfaces. The enamel is suitable for treating warehouse floors, garages, food and mechanical industries, and workshops. The final coat is also suitable for application on ceramic materials applied on vertical surfaces. Thanks to the fast polymerization of the coating system, it is the ideal product if a quick execution of the job is requested. The second coat can be applied after 6 hours.

Classified according to EC Regulation 2004/42/EC - Dlgs 161/06 -Cat. j-BA) two-pack performance coatings.
EC LIMIT VALUE 140 g/l (2010) - CONTENT 3 g/l

GENERAL INFORMATION

System: *Two pack - 2K*
Nature: *Water-based*
Packages: *1,25 kg - 10 kg*
Tinting Service: *Tinting service with water-based colorants Series 1195*

Color fans and color cards: *Ral 841 GL*

SUBSTRATE PREPARATION

- ***New floor:*** *to perform the work to the state-of-the-art, it is necessary to check the absorption of the substrate pouring water on it in order to verify the sufficient porosity level of the surface to be treated. If the water is rapidly absorbed, the support the support is in excellent conditions to be coated. Otherwise, it is not porous enough and it must be chemically treated as follows: wash the floor with a mixture of 1 part of muriatic acid to 9 parts of water and after the reaction of the acid, rinse well with water. When the floor is completely dry, proceed coating it.*
- ***Already coated floors:*** *old paint, non-compliant and friable layers must be removed mechanically. Oils, greases, and rubber residues must be removed in advance using a suitable solvent or detergent.*
- ***Metal surfaces:*** *the surface must be clean, dry, degreased and free from rust and/or calamine. Before atpplying Aquaflox Fast Series 2186, apply one coat of the proper water-based epoxy primer Aquaprimox HV Series 1056 and 24 hours later, apply the final coat.*

APPLICATION

Application conditions

Application by brush or short-haired roller (for enamels) is recommended. To ensure the homogeneity of the product with the hardener, please follow the instructions below: pour the hardener (Component B) into the pigmented base (Component A); mix everything with an electric stirrer with motor speed at 300-400 rpm. Avoid partial mixing of the product. Do not use water to wash the hardener packaging. After hardening, let the product rest for 5-10 minutes, dilute with water and proceed with application.

- ***For application on the floor:*** *dilution of the first coat at 5-10%; dilution of the second coat without additional dilution.*
- ***For applications on vertical tiles:*** *dilution of the first coat at 3-5%; dilution of the second coat without additional dilution.*

If the conditions above are not respected, problems of non-uniformity of the finish may occur, with differences in brightness and color.

EQUIPMENT	VISCOSITY	NOOZLE	PRESSURE	NOTES
ROLLER AND BRUSH	-	-	-	See Application conditions

CATALYSIS

SERIES	HARDENER	CATALYSIS	USE	POT LIFE AT 20°C	PACKAGE
0986	HARDENER FOR AQUAFLOX FAST	80% by weight (100 + 80)	Fast drying for flooring	90 minutes	1 kg - 8 kg

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ENVIRONMENTAL CONDITIONS

ENVIRONMENT TEMPERATURE	SUBSTRATE TEMPERATURE	RELATIVE HUMIDITY	SHELF LIFE
12°C - 35°C	10°C - 35°C	60 %	Store 1 year in original sealed packaging at +5/+35°C. Protect from frost.

TECHNICAL DATA

THEORETICAL AVERAGE SPREADING RATE	APPLICATION	DILUTION	GLOSS	WET FILM THICKNESS EACH COAT	DRY FILM THICKNESS EACH COAT	N° OF COATS	TOTAL DRY FILM THICKNESS	THEORETICAL AVERAGE CONSUMPTION
4,5 m²/kg each coat at the dry film thickness of 80 µ	Short haired roller, Brush	1st coat at 5-10% with tap water; 2nd coat without dilution	40 - 50 gloss	168 µ	80 µ	2 coats to achieve the total requested thickness	160 µ	222 g/m²

DRYING

OVERCOATING INTERVAL	AIR DRYING	DUST-FREE DRYING	DRY TO TOUCH	DRY THROUGH	FULL CURE	FLASH OFF	STOVING DRYING	RESISTANCE TO TEMPERATURE
6 - 72 hours	20°C	-	-	36 - 48 hours	12 days	-	-	80°C

WARNINGS AND RECOMMENDATIONS

- *The degree of gloss can be influenced by the chosen color and the thickness applied. Unlike a glossy final coat, resistance to scratching and polishing is lower.*
- *The color match is evaluated after the application and drying of the product. It is recommended to carry out practical tests, such as spreading or applying the colored product on small surfaces made of suitable material, before proceeding with the product painting.*
- *In order not to incur financial penalties, after having colored a product with tinting machine, send the MSDS and apply the appropriate legal labelling printable using the Databook P&C tinting software.*
- *Total color development in epoxy resins is obtained after the hardening and dilution of the product.*
- *After having colored the product with suitable colorants, mix the product immediately to avoid crystallization and relative pitting of the applied product.*
- *Shelf Life Component B: the shelf life of the hardener used with Component A is 12 months.*
- *The Pot Life can be influenced by the temperature. It is recommended to catalyze the quantity of product necessary to carry out the application within and no later than 30 minutes in order to avoid exothermic reactions and the complete hardening of the catalyzed material. Increasing the temperature of the material and the substrate, the pot life time useful for the application decreases (120-150 minutes at 10°C/90-120 minutes at 20°C/30-60 minutes at 30°C). After these times the product tends to dulling.*
- *Apply the second coat after 6 hours but not later than 72 hours. Do not apply the product with floor temperatures below +10°C. Check for the presence of moisture in the substrate: it must not exceed 4%. Before applying any coating, it is advisable to carry out the "plastic sheet" test, according to Standard ASTM D 4263-83, to check for any problem caused by excessive rising moisture and/or counter-thrust water.*

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WARNINGS AND RECOMMENDATIONS

- *Walkability parameters and overcoating interval for applications on cementitious floors: at 10°C walkable in 3 days and complete film hardening after 12 days; at 20°C walkable in 2 days complete film hardening after 8 days; at 30°C walkable in 2 days and complete film hardening after 6 days. In order to obtain such performances, the coatings must be applied in compliance with the application intervals defined according to the temperature: at 10°C the interval between the first and second coat must be 24 hours; at 20°C the interval must be 6 hours; at 30°C, the interval must be 4 hours.*
- *The floor must have a minimum compressive strength of 25 N/mm² and tensile strength of 1,5 N/mm².*
- *Especially as final coat, it is always advisable to use materials of the same production batch; different production batches of the same colour can have light differences.*
- *For floors subject to the parking of vehicles with new tires, it is recommended to carry out a preliminary test to exclude the formation of stains caused by the tire blend. The phenomenon is more evident with light colors.*
- *For anti-skid effect add component A with 5% of Antiskid additive Series 0851; mixing must be carried out with an electric stirrer with motor speed of 300-400 rpm. Then catalyse the product as indicated in the technical data sheet.*
- *Regarding the recoating times at 20°C between the first and second coat, for applications on vertical tiles, wait a minimum of 4 hours and a maximum of 72 hours. Sanding is required afterward.*
- *Regarding the recoating times at 20°C between the first and second coat, for floor applications, wait a minimum of 6 hours and a maximum of 72 hours. Sanding is required afterward.*
- *The full chemical resistance is reached at 20°C - 30°C after 10-15 days.*
- *Do not apply the product at ambient temperatures below 10°C and maintain this limit, with reference to both the product and the surface to be treated, at least for 8-12 hours after application.*
- *If exposed to UV rays it tends to chalk and yellow, without losing its essential characteristics.*
- *For slightly matt colored products (yellow, orange, red) it is recommended to use a suitable white/grey primer for applications on metall supports.*

WALKABILITY AND VEHICLE ACCESSIBILITY

TEMPERATURE °C	OVER-COATABLE AFTER	WALKABLE AFTER	VEHICLE ACCESSIBLE AFTER
+ 10°C	24 hours	3 days	12 days
+ 20°C	6 hours	2 days	8 days
+ 30°C	4 hours	2 days	6 days

SUPPLY TECHNICAL DATA

Composition: *Epoxy polyamide*
Reference color: *White*
% solid content by weight: *65 ± 2%*
% solid content by volume: *45 ± 2%*
VOC: *1,12 ± 2 g/l*
VOS: *0,07 ± 2%*

PARAMETER	DATA	TEST METHOD
GLOSS	40 - 50 gloss 60°	ISCOL 6
SPECIFIC WEIGHT	1,5 - 1,7 g/ml	ISCOL 2
VISCOSITY	5000 - 6000 mPa.s (20°C) Rod 4 Speed 20	ISCOL 1

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MIXING RATIO A+B

	METHOD	0986
	A+B BY WEIGHT	100 + 80
	A+B BY VOLUME	100 + 120

Specific weight after catalysis (A+B): *1,32 ± 0,05 g/ml*
% solid content by weight (A+B): *61 ± 2%*
% solid content by volume (A+B): *48 ± 2%*
VOC (A+B): *0,5 ± 2 g/l*
VOS (A+B): *0,04 ± 2%*

TINTING SERVICE

BASE	BASE PACKAGING	COLORED PACKAGING	% MIXING RATIO
BINDER	1,125 kg 9 kg	1,25 kg 10 kg	90 - 10
WHITE BASE	1,188 kg 9,5 kg	1,25 kg 10 kg	95 - 5

NOTES

Cleaning tools: *At the end of the application, carefully wash the spray guns, the painting systems and the containers with tap water. In case of removal difficulties due to the drying of the product, use a limited quantity of suitable thinner in order to remove the residual material left on the application equipment.*
Sanitary labelling: *Handle the product with care. Make reference to the MSDS and respect the national and local regulations in force concerning personal and environmental safety.*
Additional notes:

- *The spreading rates are theoretical, indicative and intended per coat as they can be influenced by the color and the application system. Practical application test is suggested.*
- *The data reported in this data sheet have been obtained using only Franchi&Kim production materials (coatings, hardeners, thinners) applied in accordance with the specifications described. The improper use of thinners and/or hardeners, other than those mentioned or not manufactured by Franchi&Kim, can compromise application features, performances and final curing of the product. Therefore, in case of mixed coating systems with Franchi&Kim and other brand products, the conformity of the results with the parameters indicated in the technical data sheet cannot be granted.*
- *All times indicated in the drying section are to be intended at the temperature of 20°C, unless otherwise specified.*
- *The gloss indicated and tested may change during the application phase because it can be influenced by the following factors: realized color, thickness, number of coats, environmental conditions, thinner and hardener used if different from those established in the technical data sheet.*
- *The data relating to section catalysis ratio A+B are to be considered refering only to the first recommended catalyst.*
- *Pot Life times have been defined at the temperature of 20°C, therefore higher or lower temperatures, hardeners, environmental conditions and humidity different from the standard can influence in defect or in excess the duration of the Pot Life.*

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