

AQUAFLOOR

Series 8210

2K, water-based acrylic clearcoat for cementitious floors



General information

System: Two pack - 2K

Nature: Water-based

Packages: 3.3 kg

Technical features

Water-based, acryl-polyurethane clearcoat based on acrylic resins and non-yellowing cross linking agents. The product has a good aesthetic appearance and surface hardness and is also suitable for outdoor application thanks to the aliphatic polymers.

Application field

Product ideal as clear, acrylic topcoat to be applied both as anti-dust, thin film thickness coat on new, rough or uncoated cementitious floors, and as transparent protective coat on previously applied, colored coats to guarantee greater durability and resistance outdoors and indoors.

Classified in compliance with the Directive 2004/42/EC - Legislative Decree 161/06: Cat. j-BA) two-pack performance coatings. VALORE LIMITE UE 140 g/l (2010) - CONTENT 139 g/l

SUBSTRATE PREPARATION

- New floor: to carry out the work properly, it is necessary to verify the absorption of the substrate pouring some water on the support to be coated in order to ensure sufficient porosity to the cement surface before coating it. If the water is rapidly absorbed, the substrate is in optimal conditions to be coated. Otherwise it is not porous enough and the surface must be chemically treated as follows: accurately wash the floor with an acid solution consisting of 1 part of muriatic acid and 9 parts of water. After the chemical reaction, rinse with water and after complete drying proceed coating the floor.
- Already coated floor: mechanically remove old paint, not compliant coatings, oils, greases, rubber-abraded coatings and friable material.

APPLICATION

Application conditions

To ensure correct application, we recommend the use of a short-hair roller (specific for enamels) and/or a brush. To avoid application discrepancies, it is recommended to strictly follow the following instructions: pour the hardener (Component B) into the colored base (Component A). Mix thoroughly with a stirrer or electric mixer with rod at a speed of 300-400 rpm. Do not add fresh paint into the already mixed product. Do not rinse with water the package of the hardener. Once the hardener has been mixed with the colored component, wait 10 minutes before diluting and applying. The first coat of product must be diluted at 20% with tap water. After 12-16 hours and no later than 4 days, finish the application diluting the product at 10% with tap water. It is recommended to faithfully respect the above recommendations in order to obtain perfect uniformity of the surface and avoid problems of color and bright differences.

EQUIPMENT	VISCOSITY	NOOZLE	PRESSURE	NOTES
ROLLER AND BRUSH	-	-	-	Dilution by roller: first coat 20% with tap water; second coat 10% with tap water

CATALYSIS

SERIES	HARDENER	CATALYSIS	USE	POT LIFE AT 20°C	PACKAGE
1610	PUR HARDENER FOR WB PAINTS	30% by weight (100 + 30)	Non-yellowing for water-based products	2 hours	1 kg

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ENVIRONMENTAL CONDITIONS

Environment temperature 10°C - 35°C

Substrate temperature 10°C - 35°C

Relative humidity 60 %

Shelf life

1 year in original sealed containers, intact and protected from frost and excessive heat at a temperature not lower than +5°C and not higher than +30°C.

TECHNICAL DATA

Theoretical average spreading rate 6,7 m²/kg each coat at the dry film thickness of 60 µ

Application Short Haired Roller, Brush

Dilution 10-15 % with tap water

Gloss 65 - 70 gloss

Wet film thickness each coat 139 µ

Dry film thickness each coat 60 µ

N° of coats 1

Total dry film thickness 60 µ

Theoretical average consumption 148 g/m²

DRYING

Overcoating interval 8 - 24 hours

Air drying 20°C

Dust-free drying 40 - 60 minutes

Dry to touch 2 - 3 hours

Dry through 36 - 48 hours

Full cure 7 days

Flash off -

Stoving Drying -

Resistance to temperature 80°C

WARNINGS AND RECOMMENDATIONS

- Shelf Life Component B: the shelf life of the hardener used with Component A is 6 months.
- 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%.
- The Pot Life can be influenced by the temperature. 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 12 hours but not later than 4 days at the temperature of 15°C, and after 12 hours but not later than 3 days at the temperature of 20°C. At 10°C the substrate is walkable in 3 days and the complete film hardening is obtained after 12 days; at 20°C the substrate is walkable in 2 days and the complete film hardening is obtained after 8 days; at 30°C the substrate is walkable in 2 days and the complete film hardening is obtained after 6 days. Complete chemical resistances are reached after 10-15 days at 20°C/30°C.
- 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.
- The floor must have a minimum compressive strength of 25 N/mm² and tensile strength of 1,5 N/mm².

SUPPLY TECHNICAL DATA

Composition	Acrylpolyurethane	% solid content by weight	39 ± 2%	Voc	80 ± 2 g/l
Reference color	Transparent	% solid content by volume	36 ± 2%	Vos	7 ± 2%
PH		GLOSS		VISCOSITY	
TEST METHOD		ISCOL 11		ISCOL 6	
DATA		8.05 - 8.15 pH		65 - 70 gloss 60°	
				800 - 900 mPa.s (20°C) Rod 3 Speed 20	
				0.95 - 1.05 g/ml	

MIXING RATIO A+B

Specific weight after catalysis (a+b)	1.07 ± 0,05 g/ml	% solid content by weight (a+b)	46 ± 2%	Voc (a+b)	139 ± 2 g/l
		% solid content by volume (a+b)	43 ± 2%	Vos (a+b)	13.5 ± 2%
1610					
A+B BY WEIGHT	100 + 30				
A+B BY VOLUME	100 + 30				

NOTES

Sanitary labelling:

Handle the products with care and always consult the material safety data sheets in order to comply with current safety and environmental regulations

Additional notes:

- The spreading rates indicated are to be considered theoretical as they do not take into account the application systems and color.
- What is reported in this technical data sheet is obtained through the exclusive use of Damiani products (paints, hardeners, thinners) applied according to the specifications indicated. The use of materials from other companies in mixed systems with Damiani products can compromise the performance of the applied coating systems. By virtue of this, the company does not guarantee the final result.
- The times related to pot life and drying intervals refer to a standard temperature of 20°C, except in cases where it is expressly indicated.
- The data relating to the A+B mixing ratio section are to be considered with reference only to the first recommended hardener.
- 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.

All the data of the document have been verified and can be considered reliable. The responsibility for the use of the product to be applied remains with the user in compliance with what is indicated in the technical data sheet. Any use of the product that differs from what is indicated in the technical data sheet concerning the parameters of preparation of the product, of the substrate, of drying and applications or that is outside the provisions of the recommended coating systems and of the preparations of suitable surfaces, must be considered attributable to the user and therefore exempts the manufacturer from any and all liability and/or guarantee. The user must in any case check and verify the suitability of the selected products according to the specific, intended use. For any information regarding the coating system, the application conditions and the technical features of the products, it is advisable to contact the technical assistance service of the Damiani laboratory. It should be noted that the packaging image could have a placeholder purpose and could therefore constitute an indicative reference. The packages indicated may vary according to the additions or changes of the annual price lists. This document replaces all previous versions. In any case, to better understand the parameters of the technical data sheet, it is advisable to refer to the annexes of the explanatory notes. The updated version of the following technical data sheet available in the specific section on the website www.color-damiani.com is to be considered the only one binding.

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