

EPOGLASS 69

Series 0432

Non-toxic vitrifying epoxy coating, certified for contact with food, oils, fats and drinking water



General information

System: Two pack - 2K
Nature: Solvent-based
Packages: 5 kg
Colors ready in stock: White

Technical features

Very high solid, solvent-free, vitrifying paint formulated with epoxy resins and characterized by high chemical resistance, high surface hardness and wear resistance. The product has a glossy finish, is compact and pleasing to the eye and thanks to its vitrifying performance, gives extreme hardness to the dry film. It is compliant with the Ministerial Decree N. 174 dtd 06/04/2004 concerning the global migration in distilled water at 40°C/24h and the materials and objects that can be used in the fixed systems for the collection, treatment, adduction and distribution of water intended for human consumption. It is also compliant with the Ministerial Decree dtd 21 March 1973 and with the EU Regulation n.10/2011 concerning the hygienic discipline of packaging, containers and tools in contact with food substances or substances for personal use.

Application field

Epoxy coating ideal for the vitrification of barrels, tanks, concrete and metal wells that contain food liquids, hydrocarbons and drinking water. It is also ideal for the internal lining of industrial and civil wastewater containment tanks and drainage systems with weakly acidic or weakly basic pH. Thanks to its washability and detergency features, the product is suitable for baseboards, seasoning surfaces and concrete and metal work tables in food laboratories, industrial kitchens, breweries, wine cellars, dairies and for all those warehouses and deposits where food is handled and stored.

Classified in compliance with the Directive 2004/42/EC - Legislative Decree 161/06: Cat. j-BS) two-pack performance coatings. VALORE LIMITE UE 500 g/l (2010) - CONTENT 172 g/l

SUBSTRATE PREPARATION

If the enamel is to be applied on objects and surfaces intended for outdoors and where an anticorrosive and passivating protection is required, a primer must be applied in advance. For this reason, the preparation of the supports is bound to the choice of the substrate. Therefore, it is necessary to refer to the technical data sheet of the primer both as regards the surface preparation methods and the repainting times. It is advisable to consult the technical assistance service or the commercial support in order to identify the possible primers to be applied in advance by virtue of the type of product and the surface to be coated.

The vitrifying epoxy coating can be used in the construction sector for cementitious substrates if some fundamental precautions are respected: the substrate must be perfectly cured (over 4 months), washed with water, dry, free of old, 1K synthetic paints and without peeling parts. Once the substrate has been prepared, apply a coat of 2K, transparent, water-based fixative Aquafixer Series 8200. In the case of metal substrates, prepare the substrate and apply the suitable epoxy primer Repox HS Series 0153 or the 2K, water-based, epoxy primer Waterpox Series 0212. At list after 24 hours apply 1 or 2 coats of Epoglass 69 Series 0432.

APPLICATION

Application conditions

The application of the product can be influenced by environmental conditions (including humidity and temperature), by the conformation of the product to be treated and by the thicknesses to be applied. It is necessary to pay particular attention to the type of application system as the different layouts and the different structural conditions of the application systems can affect the final result in a variable manner depending on the case and intervene on fundamental technical parameters such as: the transfer efficiency of the coating product, the overspray, the aesthetic appearance obtained, the sagging stability of the product and the ease or complexity of application. In this regard, it is advisable to contact the technical assistance department, when requested, to carry out the necessary surveys and consultancy in the event that applications on complex structures are to be carried out.

EQUIPMENT	VISCOSITY	NOOZLE	PRESSURE	NOTES
ROLLER AND BRUSH	-	-	-	Ready to be used or with max 5% of pure ethanol alcohol

EPOGLASS 69

Series 0432

CATALYSIS

SERIES	HARDENER	CATALYSIS	USE	POT LIFE AT 20°C	PACKAGE
0903	HARDENER FOR EPOGLASS	15% by weight (100 + 15) or 4 : 1 by volume	For vitrifying epoxy paints	45 minutes	0,75 kg

ENVIRONMENTAL CONDITIONS

Environment temperature 12°C - 35°C

Substrate temperature 12°C - 35°C

Relative humidity 60 %

Shelf life

2 years 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 6,4 m²/kg each coat at the dry film thickness of 100 µ

Application Brush, Roller

Dilution Max 5% with Alcohol Buongusto

Gloss 90-100 gloss

Wet film thickness each coat 100 µ

Dry film thickness each coat 100 µ

N° of coats 1 or 2 coats to achieve the total desired thickness

Total dry film thickness 200 µ

Theoretical average consumption 157 g/m²

DRYING

Overcoating interval 24 - 48 hours (after it is necessary to sand)

Air drying 20°C - 25°C

Dust-free drying 4 - 6 hours

Dry to touch 14 - 16 hours

Dry through 36 - 48 hours

Full cure 28 days

Flash off -

Stoving Drying -

Resistance to temperature -

WARNINGS AND RECOMMENDATIONS

- The product must be applied at ambient temperature above 15°C. Likewise, the painted product must remain stationary for the following 8-14 hours at a temperature close to 12°C/15°C in order to ensure perfect crosslinking.
- The product is sensitive to direct exposure to UV rays, therefore in the event of exposure, chalking and yellowing can occur, without compromising the performance of the system.
- 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.
- Contact with food is allowed 20 days after the application.
- Apply the second coat after 24 hours and not later than 48 hours.
- For applications where contact with food is necessary, dilution with ethanol alcohol Buongusto is recommended. The product is suitable for contact with oils and fats. Complete chemical resistances are reached after 28 days at 20°C.

EPOGLASS 69

Series 0432

SUPPLY TECHNICAL DATA

Composition	Epoxy with aliphatic amine	% solid content by weight	100	Voc	0 g/l COV Free
Reference color	White	% solid content by volume	100	Vos	0 g/l SOV Free
SPECIFIC WEIGHT		VISCOSITY		GLOSS	
TEST METHOD	ISCOL 2	ISCOL 1		ISCOL 6	
DATA	1.9 - 2 g/ml	45000 - 55000 mPa.s (20°C) Rod 6 Speed 10		90 - 100 gloss 60°	

MIXING RATIO A+B

Specific weight after catalysis (a+b)	1,6 ± 0,05 g/ml	% solid content by weight (a+b)	100 ± 2%	Voc (a+b)	0 ± 2 g/l
		% solid content by volume (a+b)	100 ± 2%	Vos (a+b)	0 ± 2%
0903					
A+B BY WEIGHT	100 + 15				
A+B BY VOLUME	4 : 1				

NOTES

Cleaning tools:

At the end of the application, carefully clean the tools (spray guns, painting systems/plants, containers) with a specific thinner suitable for the product. Store all equipment once the drying period is complete.

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 information reported in this technical data sheet is obtained through the exclusive use of Damiani products (paints, hardeners, thinners) applied according to the indicated specifications. The use of products from other companies in mixed coating systems with Damiani products can compromise the performance of the applied coating system. 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 when 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.
- 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.
- 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.

ESTALIA Performance Coatings Spa

Plant: Via San Rocco, 10/1/A - 42027 - Montecchio Emilia - Reggio Emilia - Tel. +39 0522 11 709 - www.color-damiani.com
Headquarter: Via Giacomo Matteotti, 160 - 25014 - Castenedolo - Brescia - Italia - Tel. +39 030 21 35 55 - www.estaliacoatings.com