RESIN FLOORING TECHNOLOGY
IMPERMEABLE COATING

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TECHNICAL DATA SHEET
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VITREX PLUS

Epoxy product for food industry (A+B)

CHEMICAL RESISTANT COVERING

Description

2 Component product, formulated with raw materials which are listed in the positive list for food contact.

Certified for constant and direct contact with potable water, vegetable oil, (test n. 338/2012, n. 339/2012, n. 340/2012, 349/2012, n. 350/2012, 351/2012 e 352/2012 from the Istituto di Enologia e di Ingegneria agroalimentare di Piacenza, from 20/11/2008) or other food products for which transfer test with simulator A and D2.

Usages

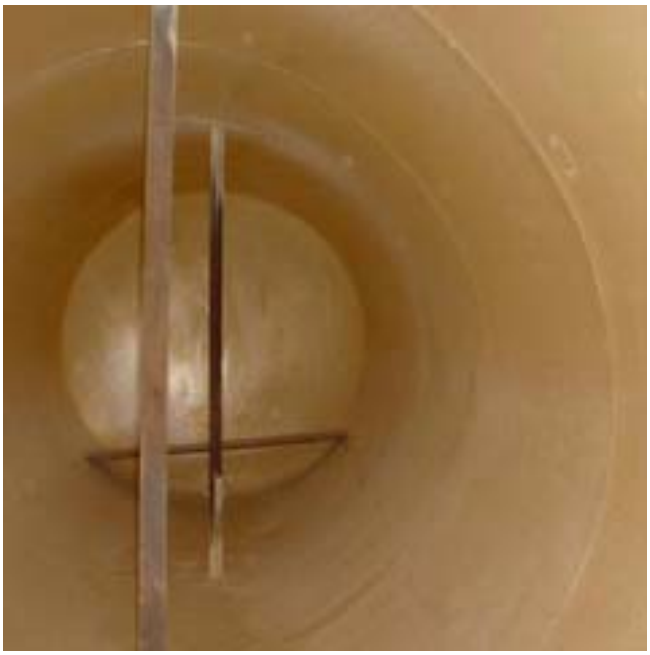
Protective coatings for hydraulic structures with constant contact with potable water, vegetable oil and other foods.

Substrate

The substrate must have a minimum resistance to compression of 25 N/mm^2 and to traction of 1,5 N/mm^2.

Preparation of the substrate

- Concrete substrate have to be solid, dry (respect the seasoning time when newly done), leveled, absorbent, not polluted by oils, cleaners, dust, or any other substance. Eventual not uniform parts will have to be restored with proper mortars for concrete.
- A layer of waterborne epoxy product **ECOFONDO** should be applied as primer.



Application

At the moment of the application mix the two components in one container and mix them for at least 2 minutes with a drill mixer till color and consistency are uniform.

Apply it quickly and by using the whole product.

For food industry and for direct and constant contact with drinkable water, eventual dilution can be done with pure ethylic alcohol; to clean the tools use diluting agent for epoxy.

Apply the product by brush, roller, or airless spray.

Apply twice with a minimum thickness of 200 µm respecting the minimum and maximum over-coating times.

Technical Data

Density		1,50 +/- 0,05 g/ml
Solids in volume		100%
Viscosity (A+B)	at 25°	5000 +/- 1000 mPascal (Spindle 2, rpm 30)
Advisable thickness by layer		200 µm
Pot-life	at 30°C	> 10 minutes
	at 25°C	15 minutes
	at 15°C	> 25 minutes
Tack free time	at 30°C and 50% U.R.	1-2 hours
	at 25°C and 50% U.R.	2-3 hours
	at 15°C and 50% U.R.	10-12 hours
Theoretical consumption		300 gr/sqm
Ratio mixture in weight		A=100 B=22
Overcoat time	at 25°C and 50% U.R.	min. 2 hours and max. 24 hours
		After the overcoat time it is necessary to abrase with abrasive paper
Hardening	at 25°C and 50% U.R.	7 days
		Before the contact with food it is necessary to carefully wash the painted surfaces.
		For the washing operations it is advisable to use drinkable water or a solution with 2% of soda Solvay, and then washing it with drinkable water.
Flash point		> 100°C
Application conditions (*)		Temperatures between 15°C and 30°C, U.R. < 50% and humidity of the substrate < 4%
Solvent to clean the tools		Solvent UNI
Storage		12 months. Keep it in a dry place at a temperature between 5°C and 35°C
Chemical resistance		Good to several aggressive agents. Please refer to our Technical Service for advices.

(*) **VITREX PLUS** when applied at temperatures from the substrate < to 15°c could form white marks when in contact with water or with waterborne substances. Therefor **VITREX PLUS** have to be applied at a temperature of the substrate not lower than 15°C and of at least 3°C higher than the dew temperature.

CAUTION:

VITREX PLUS coatings, when directly exposed to sun light, can vary their color to yellowish; this phenomenon does not have any influence on the performances of the coating.

Different batches from the same color can show few differences: when possible, use material from the same production batch.

For applications at low temperatures it is advisable to warm the product up till 25°C to facilitate the application (lower viscosity).

CHEMICAL RESISTANT COVERING

For the application of this product, the buyer engages to strictly follow what is indicated in this Technical Data Sheet and in the related Material Safety Data