GIORGIO GRAESAN	TECHNICAL SHEET	Code	TDS1029_00
and Friends	IPER VETRO	Revision	01
		Date	16/11/2018

1. DESCRIPTION

Two-pack, thixotropic, clear epoxy resin makes surfaces glossy and visibly uniform, resistant to water and normal chemical agents.

2. USE

Specially formulated for application with KIT/NUDO steel trowel on interior walls of bathrooms, kitchens or other settings that require high protection.

Ideal for interiors of shower stalls or other settings in direct contact with water.

3. PREPARING THE SUBSTRATE

Do not apply IPER VETRO directly on a lime-based product. Application processes allowed:

- ISTINTO + GIOIA diluted 30% (at least 2 coats), then apply IPER VETRO
- ISTINTO + VETRO diluted (20% VETRO + 80% water in 2 coats), then apply IPER VETRO

The substrate must be **thoroughly dry**, clean and not chalking (at least 48 hours after the application of ISTINTO and 24 hours after the application of GIOIA or VETRO).

For old walls already done with ISTINTO and protected with GIOIA or VETRO, clean and degrease the surface well, then proceed with IPER VETRO.

4. PREPARING THE MIXTURE

Catalyse BASE A with HARDENER B.

Pour HARDENER B into BASE A, mix thoroughly and slowly by hand, avoiding incorporating air into the material. Scrape the sides of the pot so the material flows inwards. Mixing time should not exceed 2-3 minutes. Allow the mixture to rest for 10 minutes, but not beyond. If the product is allowed to stand during the reaction between the two components, it noticeably heats up and its workability is compromised.

Application should be done immediately afterwards and within 30 - 40 minutes at 20° C; on especially hot days, prepare less product and proceed with the application. After 40 minutes, the product begins to thicken and make bubbles; this is a sign that it should be replaced.

5. METHOD OF APPLICATION

Apply with KIT/NUDO stainless steel trowel, pulling it smoothly upwards, following the grain of the surface so that the gel stays within the cracks. Always work with a little product on the trowel, this lets it flow better. Avoid leaving too much product in the grain; if the product forms drips, immediately remove the excess.

On corners or other spots hard to reach with the trowel, wipe with rubber finger.

Within 18-24 hours the product is still soft and it is possible to do spot touch ups, though avoid overlaps.

Between the first and second coat, wait 24 hours at 20° or until the first coat is "tack free", i.e. no print is left when pressure is applied with a finger. After 36 hours, the product vitrifies; therefore, before proceeding with the second coat, we recommend lightly sanding with thin sandpaper, removing the dust.

Keep the area isolated from dust for at least 12 hours.

Once done, seal the edges in contact with other surfaces (shower trays, taps, kitchen countertops) with suitable silicone, to avoid water stagnating between IPER VETRO and the wall, which would result in the formation of rings or crazing.

If you want to get a matt effect, when the second coat of IPER VETRO is completely dry (at least 48 hours) apply VETRO OPACO with a brush or roller.

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6. RECOATING

Should it be necessary to apply a decorative product over IPER VETRO, provided that 7 days have elapsed from its application, proceed first with a coat of PRIMUS AGGRAPPANTE, applied with the KIT/I trowel, then apply the desired lime finish. For products that require a smooth surface, apply a smoothing filler and an insulating primer to PRIMUS AGGRAPPANTE, then proceed with the standard cycle provided.

7. CLEANING THE TOOLS

To clean IPER VETRO residue from tools and coated surfaces, use ethanol on fresh product. Once hardened, the product may only be removed mechanically.

8. CLEANING THE FINISHED SURFACE

Clean with LATTE DETERGENTE or a neutral product. Do not clean with ethanol before 28 days have passed.

9. SAFETY RECOMMENDATIONS AND RISK IDENTIFICATION.

The products BASE A and INDURITORE B are classified as hazardous according to the provisions of Regulation (EC) No. 1272/2008 (CLP), see safety data sheet.

COMPONENT A contains: bisphenol-A / F-epichlorohydrin; epoxy resins (average molecular weight <= 700), oxirane, mono[(C12-14-alkyloxy)methyl]derivatives.

COMPONENT B contains: poly (oxy (methyl-1, 2-ethanediyl), trimethylhexan-1,6-diamine, benzyl alcohol.

Use and store the product according to current health and safety regulations; after use, do not dispose of containers to the environment; let residue dry thoroughly and handle as special waste. Keep out of the reach of children. If swallowed, seek medical advice immediately and show this container or label. Do not empty into drains, waterways or soil.

For more information, see safety data sheet available on: www.giorgiograesan.it

TECHNICAL CHARACTERISTICS: APPLICATION			
Dilution	Not provided		
Mixing	Mix BASE A with HARDENER B and stir for no more than 3		
	minutes to obtain a homogeneous mixture		
Colouring	Not provided		
Tools	KIT/NUDO spatula		
Primer	Not provided		
Conditions of application	From +10°C to +35°C with relative humidity < 85%		
Number of coats	2		
Surface drying time	12 hours at 20°C.		
Wait time for 2 nd coat	24 hours at 20°C		
Initial cure time	72 hours at 20°C		
Final cure time	7 days to reach the definitive mechanical characteristics		
Washability	Full wash with LATTE DETERGENTE		

TECHNICAL CHARACTERISTICS: COVERAGE		
IPER VETRO	5 – 6 sqm/litre per coat	
	Data is highly affected by the geometry of the substrate	

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TECHNICAL CHARACTERISTICS: PRODUCT		
Composition	Two-pack, epoxy resin	
Specific weight	1.09 ± 0.03 kg/litre	
рН	>8.0 – 8.5 after 30 days	
EU limit value (Directive	Maximum VOC content 26.0 g/l	
2004/42/EC): two-pack		
performance coatings: 500 g/l		
Storage conditions	Keep in a cool, dry place at temperatures between +5°C and +30°C	
Packaging	BASE A 0.670 litres HARDENER B 0.330 litres	
	BASE A 1.675 litres HARDENER B 0.850 litres	

RESISTANCE TO MOST COMMON SUBSTANCES

Substance	Result	Substance	Result
Boiling water (100°C)	resistant	Kitchen salt (from 3% to 30%)	resistant
Water + 5% detergent	resistant	Nitric acid 5%	resistant
Wine	resistant	Benzene	less resistant
Beer	resistant	White spirit	less resistant
Caffeine	resistant	Hydrogen peroxide (3%)	resistant
Coca Cola	resistant	Caustic soda 10%	resistant
Chalk	resistant	Soda	resistant
Neutral detergents	resistant	Hydrochloric acid (from 5% to 20%)	resistant
LATTE DETERGENTE	resistant	Ethanol (10%)	resistant
Grape juice	resistant	Paint thinners	resistant
Lemon juice	Resistant	Ammonia (from 10% to 25%)	less resistant
Boiling oil	Resistant	Bleach	less resistant
Ketchup	Resistant		
Mayonnaise	Resistant		
Toothpaste	Resistant		

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