GIORGIO GRAESAN and Friends	TECHNICAL SHEET IPER VETRO	Code	TDS1029_03
		Revision	03
		Date	29/10/2025

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.
It is recommended **not to apply** IPER VETRO on:

- **MURO NATURALE**

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 SATINATO).
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

Mix BASE A beforehand until it becomes a soft paste, then also mix HARDENER B to make it homogeneous.
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 5 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. If the product begins to thicken and make bubbles, this is a sign that it should be replaced.

5. METHOD OF APPLICATION

Product to be protected	First coat	Second coat
MORBIDO TOCCO ITALIANO	IPER VETRO undiluted applied with roller PE13 and smooth with a KIT/NUDO trowel	IPER VETRO applied with roller PE13 and smooth with a KIT/NUDO trowel plus an additional coat
ISTINTO PIETRA SPACCATA ISTINTO PIETRA ZEN ISTINTO CEMENTO NATURALE ISTINTO PIETRA INTAGLIATA	**ISTINTO NATURALE** VETRO SATINATO undiluted applied with brush PE10 until refusal at least two coats	IPER VETRO applied with a KIT/NUDO trowel plus an additional coat
	ISTINTO COLORED WITH GIOIA-WHITE-ORO VETRO LUCIDO undiluted applied with brush PE3	IPER VETRO applied with a KIT/NUDO trowel plus an additional coat
ISTINTO PIETRA LEVIGATA ISTINTO PIETRA CONTEMPORANEA ISTINTO ESTASI DI MARMO	VETRO SATINATO undiluted applied with roller PE13 until refusal at least two coats	IPER VETRO applied with a KIT/NUDO trowel plus an additional coat
SPATULA STUHHI SPIRITO LIBERO	VETRO SATINATO undiluted applied with roller PE13 until refusal	IPER VETRO applied with a KIT/NUDO trowel plus an additional coat
FILI DI SETA – MINIMAL – VIA LATTEA GIOIA – WHITE – ORO – CASA DEI SOGNI	IPER VETRO applied with KIT/NUDO trowel plus an additional coat	
SARTI IN PARETE	VETRO LUCIDO undiluted applied with roller PE13	IPER VETRO applied with a KIT/NUDO trowel plus an additional coat

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°. After 36/48 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.

Se 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 roller PE13.

6. RECOATING

Should it be necessary to apply a decorative product over IPER VETRO, provided that 7 days have elapsed from its application, proceed, after rough sanding, first with a coat of PRIMUS AGGRAPPANTE, applied with the KIT/I trowel, then apply the desired lime finish.

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 HARDENER 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 2nd 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 m^2/litre per coat Data is highly affected by the geometry of the substrate

TECHNICAL CHARACTERISTICS: PRODUCT	
Composition	Two-pack, epoxy resin
Specific weight COMPONENT A	1.20 ± 0,03 Kg/litre
Specific weight COMPONENT B	1.00 ± 0,03 Kg/litre
pH	>8,0 – 8,5 after 30 days
EU limit value (Directive 2004/42/EC): two-pack performance coatings: 500 g/l	Maximum VOC content 26,0 g/l
Storage conditions	Keep in a cool, dry place at temperatures between +5°C and +30°C
Packaging	BASE A 0.670 litres (0.800 kg) + HARDENER B 0.330 litres (0.330 kg)

RESISTANCE TO MOST COMMON SUBSTANCES

The product is **HACCP** certified, the certificate can be downloaded from our website.

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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