

GIORGIO GRAESAN and Friends	TECHNICAL SHEET	Code	TDS1029_00
	IPER VETRO	Revision	00
		Date	30/05/2018

1. DESCRIPTION

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

Pay attention to (particularly) dark colours as **product tends to whiten when applied thickly**.

2. USE

Specially formulated for application with steel trowel on interior walls of bathrooms, kitchens or other locations requiring high protection.

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

3. PREPARING THE SUBSTRATE

Do not apply IPER VETRO directly onto a lime-based product. Application processes recommended:

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

The substrate must be **thoroughly dry** and clean (leave at least 48 hours after the application of ISTINTO and 24 hours after the application of GIOIA or VETRO).

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

4. PREPARING THE MIXTURE

Combine BASE A with HARDENER B.

Pour HARDENER B into BASE A, mix slowly and thoroughly by hand, avoiding incorporating air into the mixture. Scrape the sides of the pot so the mixture is fully incorporated. Mixing time should not exceed 3 minutes. If the product is allowed to stand during the reaction between the two components, it noticeably heats up and its workability is compromised.

Apply immediately afterwards and within 25 – 30 minutes at 20°C; on especially hot days, prepare less product and proceed with the application. After 30 minutes, the product begins to thicken and produces bubbles; this is a sign that it should be replaced.

5. METHOD OF APPLICATION

Apply with KIT/NUDO stainless steel trowel in a smooth upwards motion following the grain of the surface so that the gel stays within the cracks. Always work with a little product on the trowel, this allows it to spread more efficiently. Avoid leaving too much product in the grain; if the product forms drips, immediately remove excess.

If applied thickly, the product tends to whiten.

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

Within 18-24 hours the product is still soft and it is possible to touch up spots if need be, 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 fine sandpaper, removing the dust.

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

Once completed, 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.

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6. 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.

7. CLEANING THE FINISHED SURFACE

Clean with LATTE DETERGENTE or a neutral product. Do not use ethanol or spirit based cleaner until 28 days have passed.

8. SAFETY RECOMMENDATIONS AND RISK IDENTIFICATION.

The product BASE A is classified as hazardous according to the provisions of Regulation (EC) No. 1272/2008 (CLP). Hazardous to the aquatic environment, chronic toxicity, category 2. Product contains bisphenol A epichlorohydrin.

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; if required, use colouring additives for epoxy resins
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	6 - 8 hours at 20°C.
Wait time for 2 nd coat	24 hours at 20°C
Initial cure time	48 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 2.5 – 3 sqm/litre for two coats Data is highly affected by the geometry of the substrate

TECHNICAL CHARACTERISTICS: PRODUCT	
Composition	Two-pack, aliphatic epoxy resin
Specific weight	1.09 ± 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 0.0 g/l
Storage conditions	Keep in a cool, dry place at temperatures between +5°C and +30°C
Packaging	BASE A 0.620 litres HARDENER B 0.380 litres

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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		

Giorgio Graesan & Friends guarantees that the information in this sheet is provided to the best of its experience and its technical and scientific knowledge, however cannot assume any responsibility for the results obtained with their use as the conditions of application are beyond its control. We recommend always checking the actual suitability of the product for each specific case. This sheet nullifies and replaces any previous version. For more information, call phone number **(+39) 02.9903951** or on **Whatsapp: (+39) 3371410335**.