TRANSPARENT PROTECTIVE FINISH

Poly DN

Two component · A:B 100:20 by weight

High-performance, two-component polyurethane finish, described in the source as UV resistant and low in VOCs. It is used as a final protective coating on resins, microcement, screeds and cementitious surfaces.

English translation of the Italian technical data sheet currently published at Decoriamonoi.it. Italian source: Published Italian edition. English edition: 01 / 18 November 2026. The technical values, stated test scope and application limitations of the Italian source are retained.

Intended uses

- High-traffic interior and exterior two-component finishing systems.
- Finishing all trowel-applied Geocemento systems.
- Protecting screeds, concrete and multilayer systems requiring high chemical resistance.
- Stain-resistant finishing coat.

Product data

Property	Value / instruction
Chemical formulation	High-performance polyurethane resin
Mixing ratio / packs	A:B = 100:20 by weight; check component weights on the label
Appearance	Opalescent in bulk; transparent after application
Versions	Matt: 5% gloss; satin: 17% gloss; gloss: 60% gloss, as described in the original
Shelf life	Part A: 12 months; Part B: 6 months

Properties and reference standards

Reference standards listed in the Italian source: UNI EN 13813:2004; UNI EN ISO 26987, stain resistance; UNI EN 13523-4, scratch test.

- Easy and quick to apply; suitable for finishing resin and microcement systems.
- Described in the original as odourless and low in environmental impact.
- Good elasticity, abrasion resistance, stain resistance and resistance to a water column.

Physical properties of the components and system

Property	Part A	Part B	System (A+B)
Colour	Whitish	Transparent	Whitish opalescent
Physical form	Medium-density liquid	Liquid	Medium-density liquid
Solids (EN ISO 3251)	> 45% by weight	70% by weight	Not stated
Viscosity (UNI 8490-3:1984)	> 2300 CPS	1650 CPS	Not stated
pH	7-8.5	7-9	Not stated
Gloss at 60° (UNI EN ISO 2813:2016)	Not applicable	Not applicable	Matt 5 GU; satin 17 GU; gloss 60 GU
VOC (Directive 2004/42/EC)	8% by weight	0.1% by weight	Category IIA-BA: < 110; unit not stated in the source

Stain resistance - UNI EN ISO 26987

Rating: 0 = unaffected; 1 = slight effect; 2 = moderate effect; 3 = severe effect. These values come from the original technical data sheet.

Substance	10 min	1 hour	2 hours
Limescale remover	0	0	0
Tomato	0	0	0
Hot coffee	0	0	0
Red wine	0	0	0
Ammonia	0	0	0
Bleach	0	0	0
Ethyl alcohol	0	0	0
Fresh lemon juice	0	0	0

Application parameters

Parameter	Value / instruction
Surfaces	Interior and exterior; vertical and horizontal
Tools	Brush, roller or airless spray
Mixing ratio	100:20 by weight
Total consumption	0.2-0.3 kg/m², depending on the surface
Pot life	24 hours at 20 °C, as stated in the original data sheet
Gel / dust-dry time	1 hour at 20 °C
Rain resistance	3 hours
Walk-on time	5 hours at 20 °C
Time before service	12 hours at 20 °C
Tool cleaning	Acetone solvent
Maximum ambient temperature	30 °C
Maximum substrate temperature	30 °C
Maximum substrate moisture	2% average

Prepare the substrate

The substrate must be clean, dry and free from dust, oils, grease, coatings, laitance, surface treatments and loose material. Remove all dust and loose material completely, preferably with an industrial vacuum. Minimum tensile strength must be 1.5 N/mm². Carry out a pull-off test if in doubt.

Mixing

Stir component A thoroughly for a few minutes. Combine it with the full measured quantity of component B in a new, clean container, maintaining A:B = 100:20 by weight. Mix for at least 3 minutes until completely uniform, using a drill and paddle at 300-400 rpm. Allow the mixed material to stand for 10 minutes. Avoid excessive mixing to minimise entrained air.

Application

Before application, check substrate moisture, relative air humidity and the dew point. For roller application, apply the first and second coats with a short-pile nylon roller. Maintain a wet edge to obtain an even finish.

Limitations

- Low temperatures or high relative air humidity slow curing considerably.
- Protect from rain and water during curing.
- Do not dilute.

- Observe the mixing ratio precisely, using accurate weighing scales.
- If heating is necessary, use electric heaters only. Do not use gas, oil, paraffin or other fossil-fuel heaters.

Laboratory report - GFC Chimica, 28 April 2026

GFC Chimica S.r.l. examined Poly DN components A and B mixed at 100:20. The report records an overall pass and considers the tested system suitable for painting premises where food is present, with reference to UNI 11021.

Test	Method	Measured value	Result
Dirt pick-up	UNI 10792	ΔL = 0.06	PASS
Odour transfer	Appendix A	0	PASS
Wash resistance	UNI EN ISO 11998	Ldft = 0.42 µm	PASS
Cleanability	Appendix B	ΔE = 0.52	PASS
Mould resistance	Appendix C	0	PASS
Chlorine-active cleaner (A)	UNI EN ISO 2812-1	No change	PASS
Alkaline degreaser (B)	UNI EN ISO 2812-1	No change	PASS
Acid descaler (C)	UNI EN ISO 2812-1	No change	PASS
Disinfectant (D)	UNI EN ISO 2812-1	No change	PASS

Test conditions and scope

The cleaning-agent tests were assessed after 24 hours of contact. Dirt pick-up was tested after 7 days of drying at 23 ± 2 °C and relative humidity of 50 ± 5%, according to the laboratory note.

GFC considers the tested system suitable for walls, ceilings and washable, cleanable surfaces in premises where food is present, including areas requiring mould resistance. The tests indicate compatibility with chlorine-active cleaner, alkaline degreaser, acid descaler and disinfectant under the test conditions.

The report applies only to the Poly DN A and B samples examined, prepared at A:B = 100:20. It is not, in itself, HACCP certification and does not establish suitability for direct food contact. It must not be automatically extended to other products, application systems or conditions of use.

Safety and traceability

Before use, consult the current Safety Data Sheets for components A and B, label instructions and applicable requirements. Use suitable protective equipment and follow the manufacturer’s mixing, ventilation and application conditions. Technical figures do not replace assessment of the actual substrate and site.

Stain resistance, viscosity, VOC, gloss, curing times and other properties not measured in the GFC report are taken from the original technical data sheet; they are not validated by the report dated 28 April 2026.

Reference: GFC Chimica S.r.l., technical report dated 28.04.2026, Poly DN A+B. Read the complete original three-page report for methods, notes and test conditions.