TIPEWALL

Polyurethane finish
CE MARKING EN 13813-SR-B2.0 –10

Description
TIPEWALL is a bi-component product consisting of:
- Component A: a mix of functionalised pre-polymers, pigments, additives and solvents.
- Component B: pre-polyisocyanate.

When mixed, the two components give rise to a flexible and tough material. When applied to various types of surfaces, TIPEWALL creates a glossy finish that withstands weathering, UV rays and abrasion.
The product is available in various colours which do not alter over time.

TIPEWALL is CE marked in accordance with the EN 13813 standard as "SR" ("synthetic resin screed material" – Annex ZA.1.5).

Field of application
TIPEWALL is used as an anti-UV protective and decorative finish for NORTIG, NORDPLAST and (with a suitable base coat) BETONGUAINA liquid membranes.
Moreover, it is the ideal finish for the outdoor exposure of epoxy systems (NORDPHEN) and polyurethane systems (NORPHEN PU and HELASTON COLOR), in order to prevent premature dulling.
The product can also be applied as an intermediate coat and finish on top of an appropriate base coat (NORPHEN FONDO IGRO), on any building surface.
TIPEWALL can be decorated as desired by sprinkling coloured FLAKES.

Application
Preparing the product
Pour component B into component A and mix them using a professional paint mixer.
Preparing the support and applying the product
1) When used as a finishing coat on liquid membranes, on NORDPHEN PU and on epoxy resins:
- apply two coats of TIPEWALL diluted at 15% with a special solvent (SOLVENTE PER TIPEWALL).

2) When used on surfaces to be decorated with FLAKES:
- apply one coat of undiluted product and sprinkle it with FLAKES, then wait 24 hours;
- sand the surface and apply two coats of TIPEWALL TRASPARENTE as a finish.

3) When used as a coating as is:
apply one coat of NORPHEN FONDO IGRO;
wait half an hour then apply two coats of TIPEWALL diluted at 10%.
TIPEWALL can be applied with a roller or by spraying, as is or diluted with 10÷15% of SOLVENTE PER TIPEWALL solvent depending on the type of application.
Apply one or more coats with an interval of 6–12 hours.

Cleaning the tools
Use ACETONE or a nitro solvent before the product hardens. The hardened product must be removed mechanically.

Recommended quantities and yield
Minimum recommended consumption: 0.25 kg/m^2, two coats.
To create a 1 mm-thick coating, 1.96 kg/m^2 (A+B) must be applied.
Yield: (262±10) g/m^2 of (A+B) create a 100micron-thick coat.

Colour
The product is available in a wide range of colours (consult the "Colour catalogue"). Colours can also be made on request.

Precautions and special instructions
- The product is moisture-sensitive and must be stored in a dry place.

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- Mix components A and B by observing the mixing ratio stated in the technical sheet.
- Read the Safety Sheet carefully.
- The product is flammable and produces flammable vapours. Do not apply in closed environments unless they have been adequately ventilated beforehand.

Characteristics

APPLICATION DATA (at 23°C and with 50% R.H.)			
specific gravity, UNI 8310		g/cm³	1.35 ± 0.05
pot life, UNI EN ISO 9514		min	120 ± 20
surface drying time, UNI 8904		min	90 ± 25
minimum curing time		days	> 7
application temperature		°C	from +6 to +35
ratio A : B		---	3 : 1
CHARACTERISTICS OF END PRODUCT			
resistance to abrasion, UNI 8298-9		mg	< 100
UV and condensation resistance, ASTM D 4329		hours	> 4000
fire reaction, EN 13501-1		Class	B_{fl} s1
maximum load under traction, ISO 527	Test tube type 2 ISO 527-3 film thickness approx. 1.15 mm	MPa	2.58 ± 0.17
maximum elongation under traction, ISO 527	Test tube type 2 ISO 527-3 film thickness approx. 1.15 mm	%	33.8 ± 1.6
FINAL PERFORMANCE IN CONFORMITY TO EN 13813			
resistance to wear (BCA), prEN 13892-4		Class	AR0.5
adhesion force, prEN 13892-8		MPa	> 2 rupture of the support
impact resistance, ISO 6272-1		class	IR10

Chemical resistance, UNI EN ISO 2812-1 (method 2)

hydrochloric acid 30% in water	4
sulphuric acid 10% in water	5
phosphoric acid 20% in water	4
acetic acid 30% in water	2
ammoniac 15% in water	5
soda (sodium hydroxide) 30% in water	3
oxygenated water 3.5% (12 volumes)	5
mixture of acetic acid (1%) and hydrogen peroxide (0.5%) in water	5
denatured ethyl alcohol	4
cyclohexane	5
solvesso 100	5
ethyl acetate	4
technical acetone	5

(1 = disintegration of the product, 5 = no alteration; for the complete scale, refer to Appendix A)

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Packages and storage

Packages	3 kg kit (A+B+C), of which comp. A: 2.25 kg B: 0.75 kg 15 kg kit (A+B), of which comp. A: 11.25 kg B: 3.75 kg
Storage	components A + B: 6 months in the original packaging in a dry and covered place, at a temperature between +5°C and +35°C. Protect against frost.

Edition
16.07.2018