PRODUCT	# Polytop
MISSION	Solvent-based two-component polyurethane finish for the protection of polyurethane, polyurea and epoxy liquid membranes, antibacterial
CHARACTERISTICS	Polytop is a two-component paint consisting of solvent-based aliphatic polyurethane resins that make the product highly resistant to UV, wear and chemical agents such as oils, grease and hydrocarbons. Thanks to his formulation, the paint has antibacterial properties (according to ISO 22196) that minimize / reset the superficial bacterial load, avoiding the proliferation of bacterial colonies. Polytop is used as a coloured anti-abrasion scratchproof paint and screen to protect polyurethane or epoxy resin waterproofing and/or flooring (industrial, commercial, finishes etc.), from UV rays. After applying a suitable primer, the product may also be applied simply as a scratch-proof and/or normal finish even on ceramic, metal or cement decks (please contact Casali's Technical Office for more information on the laying cycle most suited to your specific requirements. A deck painted with Polytop is seamless and is therefore easy to clean and perfectly hygienic, making it ideal for public toilets or in any case heavy-duty areas (gyms, etc.), kitchens, offices and workplaces etc. On request, Polytop may be supplied in the non-slip version (Polytop AS), and in this case special synthetic filler is supplied separately that ensures a good grip to the cured product, even in the presence of humidity on the deck; the filler improves the product's non-slip properties but in no way makes the deck more difficult to clean. Polytop, thanks to his high resistance to abrasion, is recommended as finish layer for driveways surfaces for cars and heavy vehicles. Is possible to apply directly on asphalt as protective coating for heavy traffic; Polytop has also good resistance to chemical agent such as oils, fuels, exc. Polytop, in the white version, has an excellent "cool roof" effect thanks to an initial Solar Reflectance Index (SRI) of 108.7. Polytop has been tested according to the EN 1297 standards (Synthetic surfaces for outdoor sports areas. Method of artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and water) resulting in accordance.
APPEARENCE	Component A: medium-viscosity pigmented liquid. Component B: medium-viscosity transparent liquid.

CHARACTERISTICS OF THE LIQUID PRODUCT

CHARACTERISTICS	**VALUE**	**TOLERANCE**	**U.M.**
Specific weight	1,26	± 0,05	Kg/dm^3
Dry residue	58	± 1	%
Viscosity at 23°C (with Brookfield viscometer, rotor no. 4, speed 5)	2000	± 400	mPa.s
Mixing ratio by weight	A : B = 80 : 20		

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APPLICATION INSTRUCTIONS			
TOOLS	**THINNING**	**TYPE OF THINNER**	**TOOL CLEANING**
Brush	Ready to use		DIL A1
Roller	Ready to use		DIL A1
Spray	Ready to use		DIL A1

LAYING SURFACE	The surface must be clean and perfectly dry. If Polytop has to be applied on a two component resin system, it has to be perfectly cured, without blemishes on the surface. The overcoat time has to be respected (max 24h); if the time limit is exceeded, it is recommended to sand the laying surface to increase roughness.

CONSUMPTION	For smooth surfaces, coverage is about 0,1 Kg/sqm per coating, while for rough decks coverage is about 0,3 – 0,5 Kg/sqm depending on roughness of the deck. In any case, two coats are recommended.

APPLICATION INSTRUCTIONS	Environmental and deck temperature limit during application: MIN 10° - MAX 40°. Before applying the next layer, allow product to cure thoroughly.

DRYING AND HARDENING AT 23° C AND 50 % U.R.	Pot life: 2 h Interval between coats: MAX 24 h Walkability for use: MIN 2 – 3 days The times shown are intended for standard laboratory conditions. Drying times are strongly affected by weather conditions; high temperatures and direct sunlight reduce the drying times; areas in shadow, low temperatures and high humidity increase the drying times. In winter the product should be laid in the middle of the day when it is warmer. Ensure that the previous layer has dried properly before applying the next layer.

CHARACTERISTICS OF THE DRY PRODUCT			
CHARACTERISTICS	**VALUE**	**TOLERANCE**	**U.M.**
Resistance to abrasion (weight loss) (with Taber Abraser Mole H18 / 1000 g / 200 rpm)	0,200	± 0,05	Gr
Resistance to ageing according to EN 1297 (weathering test)	Accordant		
SRI (Solar reflectance index)	108,7		

CHEMICAL RESISTANCE IN 30 DAYS (IN-HOUSE TESTING)	
CHEMICAL REACTANT	**RESULTS**
Acetic acid 10 %	Pass
Acetic acid 50 %	Slight discolouration*

Propionic acid 50 %	Slight discolouration *
NaOH 20 %	Does not pass (MAX 7 giorni)
H2SO4 20 %	Does not pass (MAX 7 giorni)
Degreaser	Pass
Hydrocarbons	Pass
Concentrated degreaser	Slight discolouration *
Bleach	Slight discolouration *
* the slight discolouration of the surface layer in no way affects the mechanical and functional characteristics of the product	
When used with professional cleaning concentrates, it is recommended to perform a preventive test on a hidden part of the surface, following the manufacturer's instructions for diluting the cleaning agent.	

PACKAGING INSTRUCTIONS	**COLOURS AVAILABLE** See the range of polyurethane colours	**PACKAGING** A + B = 5 – 10 Kg
STORAGE INSTRUCTIONS	**STORAGE TEMPERATURE** MIN 5° C – MAX 40° C	**STABILITY IN THE ORIGINAL PACKAGE** 6 months
SAFETY STANDARDS	Please read the safety data sheet carefully before using this product.	

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