

News TECHNOLOGY

INNOVATION

Universal Reactive Elastic Waterproofing System

EPURC – *Elastomeric PolyUrethanic Reactive Complex*

TECNOCHEM
I T A L I A N A S P A

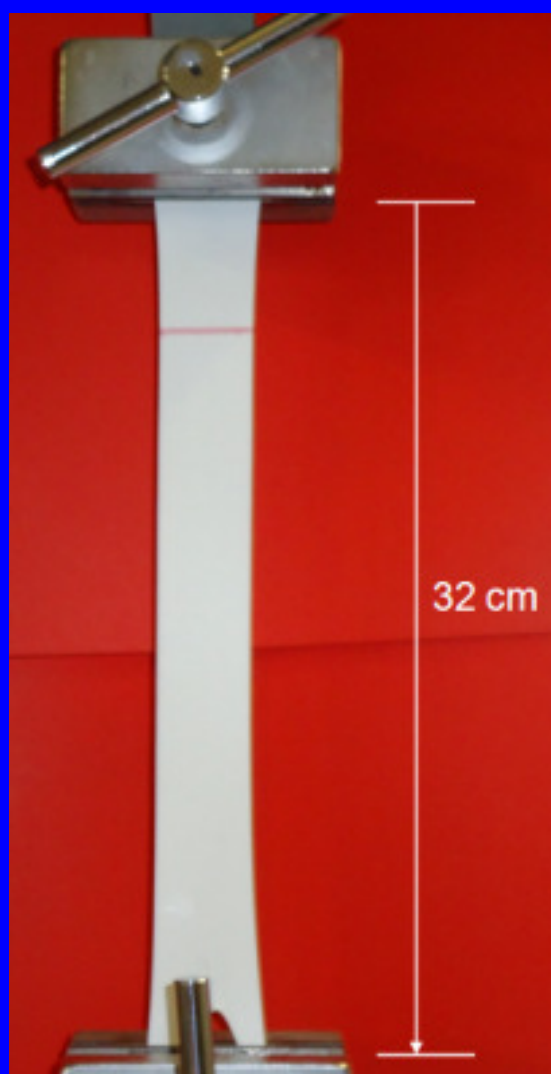
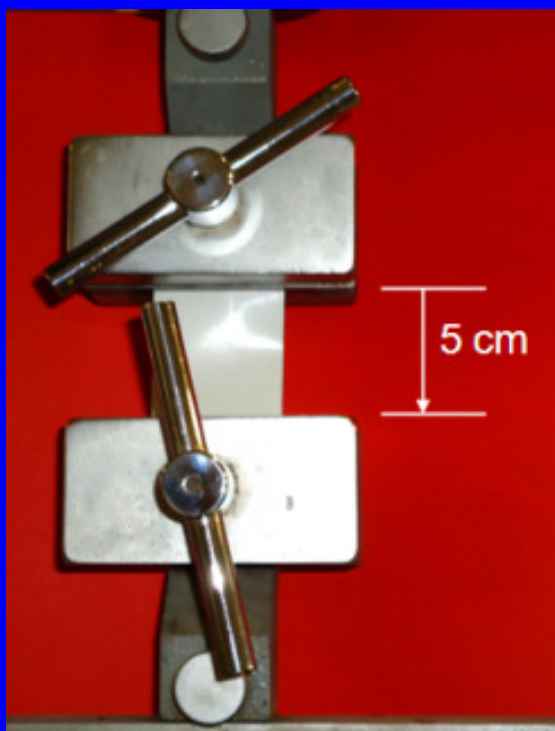
- Liquid One component Moisture Curing Hygrohardening Waterproofing Membrane for Extreme durable Elastic Protection, allowing pedestrian traffic.
Adhesion to Concrete, Mortar, Tile, Brick, Metal, Wood, Plexiglas, Insulation Materials.
- Walkable Waterproofing of Balconies, Terrace, Floors.
- Horizontal and Vertical Protection and sealing.
- Indispensable for Drawing Near, Overlaps, Cavities, Passing Objects.

SYSTEMS

PL-MONO tec

*Liquid waterproofing
membrane, grey,
white, or in colour*

PL-MONO tec



Elongation till break :
> 900%

Tensile strength :
> 7 N/mm²



WATERPROOFING OF ROOF SLABS OF RESIDENTIAL AND PUBLIC BUILDINGS- **PL-MONO tec**







Extract of the technical datasheet **PL-MONO tec**

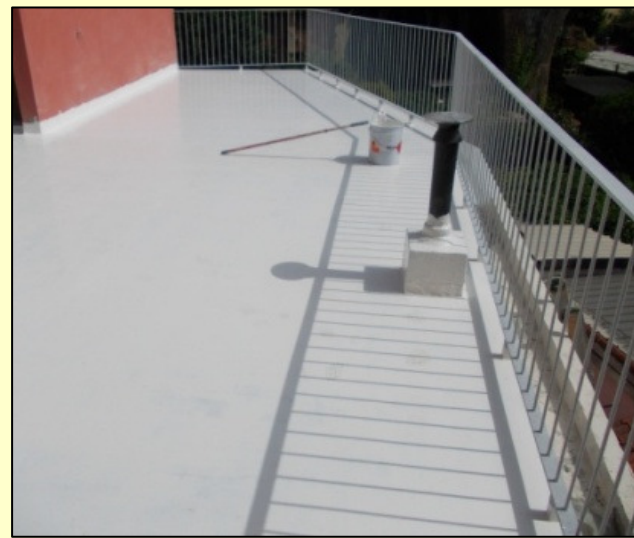
PROPERTY	RESULTS	TEST METHOD
• Elongation till Break	910 ± 80 %	ASTM D 412
• Tensile Strength	7,5 ± 0,40 N/mm ²	ASTM D 412
• Water Vapour Permeability	25 ± 4,6 gr/m ² /day	ISO 9932:91
• Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
• Adhesion to concrete	>2,2 N/mm ² (concrete surface failure)	ASTM D 903
• Adhesion to steel	>2 N/mm ²	EN 1542
• Hardness (Shore A Scale)	69 ± 5	ASTM D 2240 (15")
• Fire test to building materials	B2	DIN 4102-1
• Resistance to Sparks and Radiating Heat	Exceeds	DIN 4102-7
• Rain Stability Time	4 hours	Conditions: 20°C, 50% RH
• Light Pedestrian Traffic acceptance Time	12 hours	
• Final Curing time	7 days	
• Chemical Properties	Good resistance against acidic and alkali solutions (10%), detergents, seawater and oils.	

Water-resistant, frost-resistant, UV-resistant

Maintenance of the characteristics of elasticity and resistance from -30°C to +90°C

WALKABLE WATERPROOFING OF BALCONIES, TERRACES, FLOORS, EVEN OVER TILES

PL-MONO tec

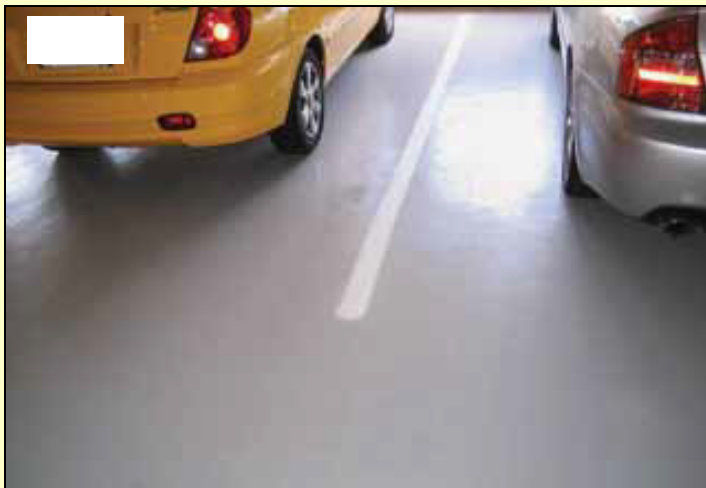


PL-MONO tec TTC Traffic Top Coat

**Liquid WEAR RESISTANT
PROTECTIVE membrane
to be applied over
PL-MONO tec
for PARKING AREAS**

Sprinkle on the PL-MONO tec ,while still wet, some dry quartz sand, size 0.3-0.7 mm. After film formation, remove the excess quartz and apply the **PL-MONO tec TTC in 2 coats.**

Resistant to pedestrian and vehicular traffic, UV stable, resistant to weathering and de-icing salts.



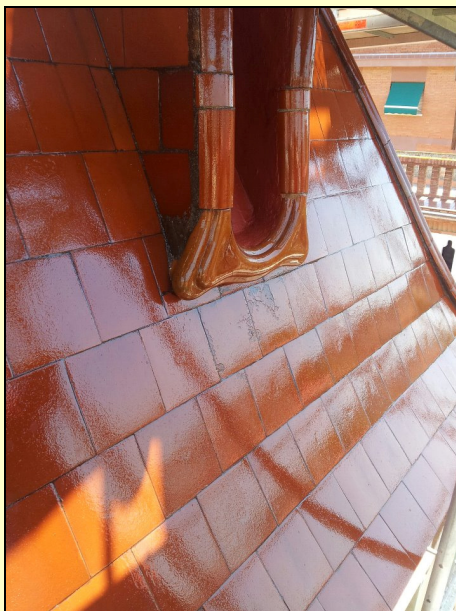
Extract of the datasheet **PL-MONO tec TTC**

PROPERTIES	RESULT	METHOD
Composition	Aliphatic polyurethane polymer, solvent based hygrohardening.	
Resistance to water pressure	No loss	DIN EN 1928
Elongation till break	> 100%	DIN EN ISO 527
Tensile strength	> 5 N/mm ²	DIN EN ISO 527
Chalking after 2000 hours of accelerated ageing (DIN EN ISO 4892-3, 400 MJ/m ²)	No chalking. Chalking level 0	DIN EN ISO 4628-6
Adhesion to PL-MONO tec	> 2N/mm ²	ASTM D 903
Hardness (Shore D Scale)	30	ASTM D 2240 (15'')
Accelerated ageing UV in presence of humidity	No significant changes. Exceeds requirements	EOTA TR-010
Hydrolysis (5% KOH, cycle 7 days)	No significant elastomeric changes .	Laboratory
Service temperature	From -40°C to +90°C	Laboratory
Touch dry	1-4 hours	Conditions: 20°C, 50% U.R.
Resistant to foot traffic	12 hours	
Final curing for car traffic	7 days	
Chemical properties	Good resistance to acidic and alkaline solutions (5%), detergents , sea-water, oil.	

PL-MONO tec Transparent

**Transparent liquid
waterproofing
membrane.**

TRANSPARENT WATERPROOFING OF BALCONIES, TERRACES, TILED ROOFS.



Request for information or project assistance :

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EXTRACT OF THE DATASHEET

PL-MONO tec Transparent

PROPERTIES	RESULTS	METHOD
Composition	High solid content polyurethane pre-polymer	
Elongation till break	= 300%	DIN EN ISO 527
Tensile strength	= 25 N/mm ²	DIN EN ISO 527
Tear Resistance	= 50 N/mm ²	DIN EN ISO 34 , Method 3
Elongation till break after 2000 hours of accelerated weathering (DIN EN ISO 4892-3, 400 MJ/m ²)	= 290 %	DIN EN ISO 527
Tensile strength till break after 2000 hours of accelerated weathering (DIN EN ISO 4892-3, 400 MJ/m ²)	= 25 N/mm ²	DIN EN ISO 527
Gloss retention after 2000 hours of accelerated weathering (DIN EN ISO 4892-3, 400 MJ/m ²)	optimal	DIN 67530
Scratches on the surface after 2000 hours of accelerated weathering (DIN EN ISO 4892-3, 400 MJ/m ²)	No scratches	DIN EN ISO 4628-6
Hardness (shore D scale)	25	ASTM DD 2240
Vapour permeability	8 gr/m ² 24 ore	EN ISO 12572
Resistance to water pressure	No loss (1 m Column water 24 hours)	DIN EN 1928
Adhesion to absorbing ceramic tile	>2 N/mm ² (failure in the tile)	ASTM D 903 (ELCOMETER)
Hydrolysis (5%KOH, 7 days)	No change	Laboratory
Service temperature	From -40°C to +90°C	Laboratory
Touch dry	8 hours	
Walkable	24 hours	
Complete curing	7 days	
Chemical resistance	Good resistance to detergents, sea water, oil	+20°C 50% UR