

PLURYFLEX®

Two component 100% solid pure aromatic polyurea (PUA).



ADVANTAGES & BENEFITS:

- Fast set curing system (5-6 sec gel time; 15 sec. tack-free time)
- Seamless coating, suitable for pedestrian after 60 sec. and for vehicles after 8 hours
- Very good chemical resistance
- No VOC'S and no odors
- Ambient moisture insensitive during application
- Application until -20°C (-4°F) on site
- Short down time

SUBSTRATES:

Concrete, iron, steel, wood, asphalt layer, tiles, pottery, geotextile non-woven fabrics, sprayed polyurethane or PUR slabs foam, EPS/XPS (Expanded/Extruded Polystyrene).

SUITABLE FOR:

- Pedestrian and vehicles flooring (avoiding to make a finishing floor with tiles)
- General purpose waterproofing
- New internal and external industrial flooring
- Restoring old internal and external industrial flooring
- Restoring old asphalt layers without their removing
- Water treatment plant / sewage treatment plant
- Secondary containment
- Biogas coating
- Swimming-pool coating

Notes: In case of swimming-pool, finishing should be done with an aliphatic chlorine resistant polyurethane paint.

WAY OF APPLICATION

Spraying with a suitable high pressure and high temperature plural component equipment.

SUBSTRATES PREPARATION

Concrete:

Before application check surface must be dry (internal moisture not above 5%), cleaned and structurally sound. In case of new concrete level the surface using epoxy mortar and check the surface must be without bugholes. Do not apply PUA before 28 days from casting of concrete. In case of application on new or to restore ground floor be sure of the presence of a vapor barrier.

Steel or wood:

Surface must be cleaned, dry and with coarse profile (sandblasting or shotblasting).

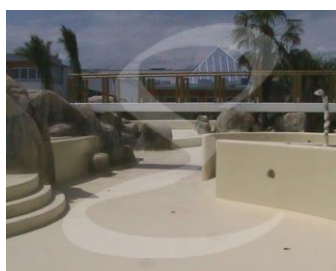
Ceramic tiles:

Surface must be cleaned, dry, shotblasted, scarified or it should be coarse by acid etching and with restored seams.

Sprayed polyurethane or PUR slabs foam, EPS/XPS (Expanded/Extruded Polystyrene):

Direct application.

For other kind of surfaces please contact our technical office. In any case (except old asphalt layers supports) we suggest to apply a thin layer of epoxy or polyurethane primer.



TECHNICAL DATA SHEET

PRODUCT IDENTIFICATION	PART "P"	PART "I"
Aspect	Viscous Liquid	Viscous Liquid
Color	*	Amber clear
Specific gravity	1-1,1 g/cm ³	1,1-1,2 g/cm ³
Solid content	100%	100%
Viscosity Brookfield (mPa.s) a 25°C 2 r.p.m.	500-700	600-1100
Shelf life	Minimum 12 months in their sealed drums. Keep stored in dry and fresh place between +10 °C and 30°C (50/86°F). Mix Part "P" every time before use. Part "I" is moisture sensitive. Keep dry during usage with a silica gel desiccant over the little hole of the drum. In case of usage of remaining products be careful to check if there are present crystallization due to reaction of ISO with moisture.	
Safety and handling according to CEE 88/379	PLURYFLEX PART "P" and PLURYFLEX PART "I" are irritant for direct contact with eyes and skin. After direct contact could appear sensitization phenomena. Wear always gloves, mask and goggles and use with suitable ventilation (if indoor) during application. In case of contact with eyes and skin, rinse with water and in case call a medic. (Consult MSDS)	
Packaging	205 kg with removable cover drum 20 kg with removable cover can	225 kg drum 22 kg with removable cover can
Way of sale	1 drum "P" part + 1 drum "I" part = 430 kg 1 can "P" part + 1 drum "I" part = 42 kg	
Flammability	N.A.	N.A.
APPLICATION DATA @ + 20 °C (68°F) - 55% R.h. - Average thickness 1,5/2,0 mm.		
Ratio by volume	1:1	
Gel time	5-6 sec.	
Suitable for pedestrian after	60 sec.	
Suitable for vehicles after	8-10 hours	
Recoat within	3-4 hours	
In service for other jobs like casting concrete, floating flooring, etc. after	20-30 min.	
PERFORMANCE AFTER CURING @ + 20 °C (68°F)- 55% R.h. - Average thickness suggested 2,0 mm.		
Service temperature	from -40 °C to +120 °C (-40°F to 248°F)	
Weatherability	Excellent	
Chemical resistance	High (See technical report)	
Elongation (ASTM D 638)	410% - 440%	
Tensile strength (ASTM D 638)	14,8 – 15,7 MPa – 2150/2300 psi	
Hardness SHORE D	45-52	
Taber Abrasion (H18, 1000 rev., 1000 gr)	100 mg – 150 mg	
Adhesion on concrete with primer (ASTM D4541)	18-35 Kg/cm ² -- 260-500 psi	
Adhesion on sandblasted steel or metals (ASTM D4541)	60-100 Kg/cm ² -- 850-1420 psi	
Average consumption	1 kg/mq/mm thickness	

*Mattone (Red oxide similar Ral 3016); Rubino (Red similar Ral 3020); Rubino 1 (Dark red similar Ral 3005); Silver (Light grey similar Ral 7042); Silver 1 (Light grey similar Ral 7035); Fumo (Dark grey similar Ral 7026); Nero (Black); Smeraldo (Dark green similar Ral 6005); Smeraldo 1 (Light green similar Ral 6026); Sabbia (Sand similar Ral 1014); Blu night (Dark blu similar Ral 5013); Aqua (Light Blu similar Ral 5012); Arancio (Orange similar Ral 2008); Arancio 1 (Orange 1 similar Ral 1034); Giallo (Yellow similar Ral 1007); Neutral. Other colors on request.

Notice: it is not advisable the outdoor application with presence of strong wind, with internal R.h. of concrete above 5% and with an ambient temperature below -20°C (-4°F). The product is aromatic base and it can slightly change the color, but keeping its mechanical-chemical-physical characteristics. In case of aesthetic needs it can be top coated by an aliphatic UV resistant coating. Technical suggestions written or oral supplied as technical assistance to the customer should be considered, at the best of our knowledge, but barely indicative and they should be confirmed by his sound practical applications. Therefore the user of the product has to establish if it is suitable or not to the final use and anyway he will be liable for the use.

Warranty: ELASTOPOOL S.r.l. has no knowledge or any control concerning buyer's use of the product nor over the quality of the substrate to which they are applied. ELASTOPOOL S.r.l. does not assume any liability for any loss or damage resulting from the handling or use of the products by the buyer. The quality and final characteristics of the finished polymer is determined by way of mixing and application. ELASTOPOOL S.r.l. has no role in the application of the finished polymer other than to supply its two components. It is necessary that the person applying this product understand the product and be fully trained and certified in the use of plural component equipment ELASTOPOOL S.r.l. makes the following Limited warranty that its products have been supplied without manufacturing defects, and will conform to ELASTOPOOL S.r.l. manufacturing standards. The Limited Warranty will not apply in the case of improper installation, improper substrate preparation, damage beyond the scope and protection of the products, exposure of the product to solvents and/or higher concentration acids and bases beyond that which the products are designed for use and loss of bond due to hydrostatic pressure, vapor pressure, capillary action or moisture from within, under or adjacent to the substrate surface. The liability of ELASTOPOOL S.r.l. for any nonconformity of the product to its technical specifications shall be limited to replacement of the product at no cost to buyer, is conditioned upon buyer notifying ELASTOPOOL S.r.l., or its distributor in writing of such defect within thirty days of the discovery of such defect. ELASTOPOOL S.r.l. shall not be liable for any direct, incidental, or consequential damages resulting from any breach of warranty. In no event shall ELASTOPOOL S.r.l. be liable for consequential damages, including, but not limited to buyers loss of material or profits, increases expense of operation, bodily injury, loss of use of property, or down time. ELASTOPOOL S.r.l. makes no implied warranties of merchantability or fitness for a particular purpose. The buyer hereby expressly waives any claim to additional damages. This limited warranty supersedes any other warranty or other representation, whether or oral, hereto made between the parties.