

FID-PLURYFLEX®
TWO COMPONENT 100% SOLID PURE AROMATIC
POLYUREA (PUA) IDEAL FOR WATERPROOFING
APPLICATION



TECHNICAL GLOBAL SERVICES



TECHNICAL DATA SHEET

PRODUCT IDENTIFICATION	PART "P"	PART "I"
Aspect	Viscous Liquid	Viscous Liquid
Color	Black, Red Oxide, Emerald, Smoke, Silver, Sand, Blu Night	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)@25°C 2r.p.m.	500-700	600-1100
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	1drum"P"part+1drum"I"part=430kg 1can"P"part+1drum"I"part=42kg	
Flammability	N.A.	N.A.
APPLICATION DATA @ + 20°C (68°F) – 55% R.h.		
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, ect. after	20-30 min	
PERFORMANCE AFTER CURING @ + 20°C (68°F) – 55% R.h. – Average thickness 1,5/2,0 mm.		
Service temperature	From -20°C to +120°C (-4°F to 248°F)	
Weatherability	Excellent	
Chemical resistance	High (See the technical report)	
Elongation	280-350%	
Tensile strength	14,8-15,2 MPa – 2100-2200 psi	
Hardness SHORE D	45-52	
Taber Abrasion	220mg – 250mg	
Adhesion on concrete with primer	18-35 kg/cm ² – 260-500 psi	
Adhesion on sandblasted steel or metals	60-100 kg/cm ² – 900-1500 psi	
Average consumption	1 kg/sqm/mm thickness	
Shelf life	Minimum 12 months in their sealed drums. Keep stored in dry places @ +10°C/25°C (50/77°F) Mix part "P" every time before use Part "I" is moisture sensitive. Keep dry during usage with a silica gel dessicant over the little hole of the drum. In case of usage of remaining products be careful to check there are present possible 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. Wear always gloves 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).	

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MATERIAL CHARACTERISTICS

Description

FID-PLURIFLEX is a two component 100% solid pure aromatic polyurea (PUA).

Ideal for:

- General purpose waterproofing;
- Waste water tank coating;
- Secondary containment;
- Pedestrian and vehicles flooring (avoiding to make a finishing floor with tiles);
- New internal and external industrial flooring;
- Restoring old internal and external industrial flooring;
- Restoring old asphalt layer without their removing;
- Swimming-pool coating.

Notes:

In case of aesthetic applications, finishing should be done with an aliphatic polyurethane paint.

Advantages:

- Fast set curing system (5-6sec gel time; 15sec tack-free time);
- Seamless coating;
- 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 PREPARATION

Concrete:

Before application check surface must be dry (internal moisture not above 10%), cleaned and structurally sound. In case of new concrete check the surface must be without bugholes and 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.

SUBSTRATES

Concrete, steel, iron, wood, sprayed polyurethane or PUR slabs foam, EPS/XPS (polystyrene), geotextile.

WAY OF APPLICATION

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

QUALITY & CERTIFICATION

Material supply is accompanied by a certificate of origin of the material from the producer and the certificate of characterization of the mechanical properties issued by an Italian laboratory approved by the Ministry of Infrastructure and Transport according to Art. 59 of D. P. R. 380/2001 construction material sector following the law .1086/71, with Decree n.38194 of 14/01/1992 and followings.

LEGAL NOTES

The technical advice that Fidia S. r.l. Technical Global Services provides, orally or in writing, as assistance to the customer or installer on the basis of its experiences, corresponding to current scientific knowledge and practices, are not binding and do not demonstrate any legal or contractual obligation accessory with contract of sale. They do not exempt from liability buyer feel our products as regards their suitability for use. For the rest are valid our commercial conditions. Discrepancies that original content and/or use not involve any responsibility by the company's Fidia S. r.l.. The Client is obliged to check that this report, and the values are valid for the consignment of product of its interest and not be overcome, as replaced by subsequent editions and/or new formulations of the product. In doubt, please contact advance our Technical Office.

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