

KWS - Polyurethan

Two component 100% solid pure aromatic self extinguishing polyurea (PUA).
Certified Fire Approved EN 13501-1 Class B-S1

ADVANTAGES & BENEFITS:

- Fast set curing system (10-12 sec gel time)
- Seamless coating
- No VOC'S and no odors
- It can be painted after 5-10 min.
- It can be demolded after 5 min (with mold release agent)
- Ambient moisture insensitive during application
- Application until -10°C (-14°F) on site

SUBSTRATES:

Concrete, steel, iron, wood, PUR foam, EPS/XPS (Expanded/Extruded Polystyrene), EPE (Expanded Polyethylene), EPP (Expanded Polypropylene), geotextile non-woven, fibre glass.

SUITABLE FOR:

- Internal scenography
- External scenography
- Indoor furniture
- Special coating
- Theme parks

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

WAY OF APPLICATION

Spraying or pouring 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).

PUR foam, EPS/XPS (Expanded/Extruded Polystyrene):

Direct application.

EPE (Expanded Polyethylene), EPP (Expanded Polypropylene):

Special treatments required.

TECHNICAL DATA SHEET

PRODUCT IDENTIFICATION

	PART "P"	PART "I"
Aspect	Viscous Liquid	Viscous Liquid
Color	*	Amber clear
Specific gravity	1,2-1,3 g/cm ³	1,2-1,3 g/cm ³
Solid content	100%	100%
Viscosity Brookfield (mPa.s) a 25°C 2 r.p.m.	900-1000	500-800
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. SCENOFLEX AEC PART "P" and SCENOFLEX AEC 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)

Safety and handling according to CEE 88/379

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	10-12 sec.
Suitable for pedestrian after	20-30 min.
Suitable for vehicles after	N.A.
Recoat within	3-4 hours
In service for other jobs like casting concrete, floating flooring, etc. after	-

PERFORMANCE AFTER CURING @ + 20 °C (68°F)- 55% R.h. - Average thickness suggested 2,0 mm.

Service temperature	from -25 °C to +110 °C (-13°F to 230°F)
Weatherability	Excellent
Chemical resistance	N.A.
Elongation (ASTM D 638)	300% - 370%
Tensile strenght (ASTM D 638)	12,5 – 13,5 MPa – 1800/1950 psi
Hardness SHORE D (SHORE A)	40-45 (90-95)
Taber Abrasion (H18, 1000 rev., 1000 gr)	120 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	1,2 kg/mq/mm thickness