

# POLYUREA 470

TWO-COMPONENT ELASTOMERIC PURE  
POLYUREA MEMBRANE



## DESCRIPTION

Two-component, spray-applied, elastomeric pure polyurea membrane based on aromatic isocyanates and flexible amines.

100% solids system. Reaction to fire Class E according to EN 13501-1.

Service temperature from -30°C to +170°C.

Designed for application using dedicated high-pressure spray equipment.

## FIELDS OF APPLICATION

- Waterproofing
- Roofing systems
- Parking decks
- Infrastructure
- Industrial floors
- Wastewater treatment plants
- Oil & gas
- Tanks
- Marine applications and civil engineering structures.

## ADVANTAGES

- VOC-free
- No shrinkage or weight loss
- Excellent weather resistance
- Low permeability
- Application temperature from -15°C to +70°C
- Good chemical resistance
- Excellent crack-bridging capability

## COLOURS

- Red RAL 3009,
- Blue RAL 5015,
- Green RAL 6020,
- Grey RAL 7040,
- White RAL 9010,
- Black RAL 9005,
- other colours on request.



Date 15/10/2025

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PRODUCT SHEET

## TECHNICAL DATA

Property	Value	Unit	Standard
Density (ISO) at 25°C	1,11-1,12	g/cm <sup>3</sup>	UNI EN ISO 2811-1
Density (Resin) at 25°C	1,00-1,05	g/cm <sup>3</sup>	UNI EN ISO 2811-1
Viscosity (ISO)	500-800	mPas	UNI EN ISO 3219
Viscosity (Resin)	300-500	mPas	UNI EN ISO 3219
Mixing ratio	1:1	by volume	EPALAB006.01
Gel time	8-12	sec	EPALAB007.01

## PERFORMANCE DATA

Property	Value	Unit	Standard
Tensile strength	18-22	MPa	ISO 527
Elongation at break	440-470	%	ISO 527
Tear strength	95-100	kN/m	ISO 34
Young's modulus	50-70	MPa	ISO 527
Abrasion resistance (Taber)	<3000	mg	EN 5470
Hardness	38-42	Shore A	ISO 868
CO <sub>2</sub> permeability	>100	m	EN 1062
Water vapour permeability	<5	m	EN 7783
Thermal conductivity	0.14	W/mK	EN 12667
Adhesion to concrete	>1.5	MPa	EN 1542

## CHEMICAL RESISTANCE

Chemical resistance classification according to internal testing (A = excellent, B = good, C = limited resistance).

## PRODUCT PREPARATION

Ensure equipment efficiency, recirculation of components, moisture protection of isocyanate component and use of dry air.



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## APPLICATION

Application must be carried out by trained and qualified applicators. Substrate moisture content  $\leq 4\%$ . Substrate temperature must be at least  $+3^{\circ}\text{C}$  above the dew point. Substrates must be dry, sound, clean and free from contaminants. Surface preparation by blasting, grinding or milling is required.

## SUBSTRATE PRIMERS

PRIMER	Substrate
B-TECH EPAPOX 22	Cementitious substrates
B-TECH EPAPOX 25	Metal / wood
B-TECH EPAPOX BUS	Damp substrates
B-TECH EPACRETE OLV 13.30	Interlayers
B-TECH EPACRETE OLV 201	Cementitious substrates

## PROCESS PARAMETERS

Parameter	Value
Ambient temperature	$+5/+40^{\circ}\text{C}$
Relative humidity (substrate)	4%
Component temperature	$+60/+80^{\circ}\text{C}$
Pressure	120-200 bar

## PACKAGING

430 kg kit (Resin 205 kg + ISO 225 kg).

## STORAGE

Store between  $+5^{\circ}\text{C}$  and  $+30^{\circ}\text{C}$ . Shelf life 12 months.

## SAFETY

Wear appropriate personal protective equipment (PPE) including gloves, goggles and protective clothing. Ensure adequate ventilation. Refer to SDS.

## DECLARATION OF PERFORMANCE NO. 02.2

Product: B-TECH POLYUREA 470 in accordance with EN 1504-2. System 2+. Istituto Giordano Certificate 0407 CPR-1390. Performance identical to original technical data sheet.

## LEGAL NOTICE

The information and recommendations given above, although they correspond to our best experience, must in any case be considered purely indicative and must be confirmed by exhaustive practical applications. Therefore, before using the product, anyone who intends to make use of it must determine whether it is or is not suitable for the intended application and, in any case, assumes all responsibility that may arise from its use. Always refer to the latest updated version of the technical data sheet, available on the website [btechitalia.eu](http://btechitalia.eu).

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