

Polyproof EPU

Two-component, hybrid polyurethane based, flexible sealing compound

DESCRIPTION

Polyproof EPU is a cold-applied, elastomeric, two-component hybrid polyurethane-based sealing compound designed for detailing and repairing the Polyproof Ultra FB system and for filling imperfections on concrete surfaces.

CHARACTERISTICS

- Easy to apply
- Can be applied on vertical surfaces
- Excellent resistance to chemicals acids, alkalis, salts, and other corrosive materials
- Strong adhesion to concrete
- Shrinkage compensated and crack resistant
- Highly flexible

FIELDS OF APPLICATION

- Corner detailing, sealing of overlaps and pile heads of the Polyproof Ultra FB system
- Repair of the Polyproof Ultra Plus HDPE membrane
- Repair material for defects such as honeycombs, concrete blowholes, etc on concrete surfaces including vertical applications

APPLICATION INSTRUCTIONS

Pour the entire content of component B into the component A container and mix thoroughly and continuously for 2 to 3 minutes with a heavy-duty paddle mixer fitted to a high torque slow speed (300-400 rpm) drill to achieve a homogenous mixture. Polyproof EPU is supplied in pre-weighed packs and part mixing is not recommended, as the cured product will not achieve its full properties even if there is a small variation in the mixing proportions. Using a scraper, apply the mixed sealing compound to the intended areas. The material should be applied to a minimum thickness of 2mm.

- Avoid using on surfaces that are covered in dust or flaking material
- Avoid prolonged exposure to UV rays
- Avoid using on surfaces that are damp or wet
- Do not apply on wet or damp surfaces
- Avoid using on surfaces that have been contaminated by oil, grease, or release agents
- It is highly recommended to apply Polyproof EPU in the morning and/or in the evening during summer months, as extremely hot climates might reduce the products pot life



TDS_Polyproof-EPU_GCC_0424

COVERAGE

2.15 L/m²/2mm DFT

STORAGE & SHELF LIFE

Store Polyproof EPU in its original, closed packaging, in air conditioned rooms and away from sources of chemical contamination, damage, heat, and sunlight and in air-conditioned rooms. Shelf life is up to 6 months when stored between 5 to 30°C in accordance with the manufacturer's recommendations. Exercise caution when lifting, moving, transporting, storing & handling to avoid any damage. Excessive exposure to sunlight, humidity and UV will result in the deterioration of the quality of the product and will reduce its shelf life.

HEALTH & SAFETY

As with all construction chemical products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, seek medical assistance immediately

SUPPLY

Polyproof EPU 2L, 2.48kg#

#Approximate weight

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Mixed density, [g/cc]	1.23±0.05	ASTM D 1475
Color & appearance	Off white & thixotropic (other colors available upon request)	
Pot life @ 25°C, [minutes]	~60	ASTM D 2471
Tack free time @ 25°C, [minutes]	~210	ASTM C 679
@ 40°C, [minutes]	~60	ASTM C 679
@ 70°C, [minutes]	~25	ASTM C 679
Solid content by volume, [%]	~93	ASTM D 2697
Tensile strength, [N/mm ²]	>6	ASTM D 412
Elongation at break, [%]	>130	ASTM D 412
Tear strength, [kN/m]	>20	ASTM D 624
Pull off strength to concrete, [N/mm ²]	>2.5	ASTM D 4541
Peel adhesion on Polyproof Ultra Plus, [N/mm]	>1.0	ASTM D 903
Low temperature flexibility, [°C]	No crack at -25	ASTM D 1970
Chemical resistance	Resistant to 5% sodium chloride, 5% magnesium sulphate, 5% potassium sulphate, 5% calcium chloride, 5% magnesium chloride, 10% calcium hydroxide, 5% sodium hydroxide	ASTM D 543
Hydrostatic pressure resistance, [7bar or (70m)]	No leakage	BS EN 12390-8
Application temperature, [°C]	5 to 45	
Service temperature, [°C]	-25 to 70	

*All values given are subject to 5-20% tolerance.

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the respective standards. The characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require manufacturer's written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of products, is based on the manufacturer's professional experience. As materials and conditions may vary with each intended application, sufficient tests are to be conducted to check the suitability of products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of willful misconduct or gross negligence on the part of the manufacturer. This technical data sheet supersedes all previous editions relevant to this product.



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