

DESCRIPTION

ACE PU-100 is an aromatic 100% pure polyurea system whose two components react in just seconds creating a continuous, waterproof and elastic membrane of great elongation and excellent pull and tear resistance.

The watertight membrane is produced on-site with high temperature projection equipment, and the system is environmentally friendly as it is 100% solid and it doesn't contain neither solvents (VOC) nor CFCs. Due to its fast curing, it can be projected with any thickness in both horizontal and vertical surfaces, independently of how irregular they are, and in any colour of the RAL chart. It has great performance in extreme environments, when exposed to high moisture levels or large temperature variations; it maintains elongation under low temperatures and resists thermal shocks.

The system has an estimated working life of at least 25 years and is **Certified with ETA 14/143, ETAG 005 and CE Marking.**

ANALYSIS OF THE COMPONENTS

	Component PU-100 A	Component PU-100 B
DESCRIPTION	Isocyanate	Aminic resins with UV stabilizers
Appearance	Liquid	Liquid
Colour	Clear yellow	White or colours
Mix ratio	1	1
Freezing point	Below 0°C (32°F)	N/A
Viscosity	750 - 850	350 - 500

PROPERTIES OF THE SYSTEM

PROPERTIES	RESULT	TEST
Hardness	SHORE A / SHORE D 41	ASTM D 2240
Reactivity @70 °C	8 secs	
Density @25°C	1,01	ASTM D 792
Solids	100 %	
VOC	0 %	
Elongation	325 % ± 10%	ASTM D 412
Tensile Strength	2973 psi ± 10%	ASTM D 412
Tear resistance (C type dice)	58,7	D53515
Resilience	30 %	ASTM D 2632
Adherence	CONCRETE > 450 PSI	ASTM D 4541
Taber abrasion; mg loss/1000 cycles, 1000 grs	With wheel H-18 155 mg	ASTM D 4060
Weathering	Aromatic system, it requires an aliphatic coating when it doesn't have any other type of protection	

PROCESSING PARAMETERS

Temperature of the products	65°C - 77°C
Mix Ratio	1 / 1
Work pressure	2000 psi - 3000 psi
Reaction: Gel Time / reaction between the two components	8 secs
Tack-free	3 -5 mins

RESISTANCE CHART

The ACE PU-100 system provides excellent resistance against organic waste, bacteria and diverse chemical products, which make it a superior product for the use in a wide range of constructive and industrial applications.

The list of resistances to different substances and chemical products is being constantly updated. Request information to our sales staff.

STORAGE AND TRANSPORTATION

Component A/ Isocyanate:

The original drums must be kept perfectly sealed in order to prevent contamination with moisture or any other materials that may have a negative impact on the processing of the product. This product reacts slowly with water creating polyureas and liberating CO₂, which may cause the sealed drums to expand and break.

It is recommended to store this product between 24 °C – 40 °C (75 °F – 104 °F) and it can be stored 12 months by keeping the product in the original containers properly sealed at 25 °C (77 °F).

Component B/ Aminic resin:

This product is hygroscopic and therefore the drums have to be sealed to prevent the absorption of moisture, which could affect its processing negatively. It is recommended to store this product between 10°C – 45 °C (50 °F – 113 °F) and it can be stored 12 months by keeping the product in its properly sealed original containers at 25 °C (77 °F).

It is classified as UN2735 Class 8 Group 3.

The transportation of these products will be made according to the current legislation in each territory in land and marine transportation matters, and it does not admit airplane transportation. See security sheet to know more about the classification of the substances in each case.

WASTE MANAGEMENT

According with what is established in the Law 11/1997 and the Art. 18.1 of the regulations that develop this, “the responsible for the delivery of the waste of the container or containers used, for its correct environmental management will be the final owner of it”.

HEALTH AND SAFETY INFORMATION

Appropriate literature has been assembled in order to provide information concerning the health and safety precautions that must be observed when handling PU-100 isocyanate and aminic components. Before working with these products, you must read and become familiar with the available information on their hazards, proper use and handling. This cannot be overemphasized. Information is available in several forms, e.g. material safety data sheet and product labels. Consult your ARTLUX EUROPA representative for further information.

IMPORTANT INFORMATION AND SAFETY PRECAUTIONS

Liquid irritate skin and eyes. Use chemical goggles, protective clothing and rubber gloves when working with chemical components. Vapor and spray mists may be harmful. Use only with exhaust ventilation and a positive pressure air supplied full-face respirator. Don not use if you have chronic breathing problems or if you have had a reaction to isocyanates.

The information and data contained herein are believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since ARTLUX EUROPA cannot know all of the uses to which its products may be put or the conditions of use, it makes no warranties concerning the fitness or suitability of this products for particular use or purpose. Users should thoroughly test any proposed used of the ARTLUX EUROPA products and independently conclude satisfactory performance in the application. Likewise, if the manner in which the product is used requires governmental approval or clearance, the user must obtain approval.

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