



TECHNICAL DATA SHEET ACRIFORMA PU

MONOCOMPONENT POLYURETHANE-ACRYLIC WATER-BASED ALIPHATIC AND THIXOTROPIC MEMBRANE FOR WATERPROOFING AND PROTECTION

1. PRODUCT DESCRIPTION

ACRIFORMA PU is a monocomponent liquid formed by a polyurethane-acrylic water-based hybrid that, when dry, forms a hydrophobic, continuous, elastic and without joints membrane.

This liquid product, as it is thixotropic, it can be applied both in horizontal supports and in vertical facings. It can be applied in concrete supports, fibro-cement, cement tiles, wood, oxidized metal, galvanized steel, etc. (for other support, contact with the technical service).

This membrane owns an excellent environmental resistance, a high stagnant-water resistance and it breathes (allows water vapour diffusion), preventing the accumulation of water under the membrane. It is easy to apply and to repair.

This membrane, being 100% aliphatic, has an excellent UV radiation resistance. Its white colour acts as solar reflector, reducing the temperature inside the building. Can be used on waterproofing and protection of decks, light metallic decks or of fibro-cement, polyurethane foam and on under tiles like wet areas applications.

ACRIFORMA PU is not adequate to be use on supports that are in bad state. It shouldn't be applied when the climate is wet or while it is raining.

2. APPLICATION AND CONDITIONS OF APPLICATION

2.1. Recommended combinations

It is recommended to use IMPRIFORMA EPOXY 100 or a suitable primer to the characteristics of the support and let dry before its application.

Please contact with our technical department to receive advice about the best option. Apply the chosen primer according to the specifications of the technical data sheet.

2.2. Requirements of the support

To obtain a good penetration and adherence, the support must be levelled, consistent, clean and dry, without dust, rest of materials or free particles, superficial slurries and without fats, oils and moss. Clean the support with pressurized water if is possible and remove any cured membrane.

The concrete supports must have a hardness of R28 (=15MPa). The support humidity must be <10% and the temperature between 5-35°C.



Do not applied when the relative humidity is > 85% and with a temperature of < 5°C.

2.3. Application/consumption

It is recommended to homogenize the product before starting to use it, using a low revolution (300 rpm) mechanical stirrer for this.

If is considered necessary, it can be diluted with water in a concentration between 5-10% as maximum.

The product can be applied with roller, brush or airless gun. Apply the product in 1 or 2 layers. In case of waterproofing, is recommended to apply the product with a minimum consumption of 1,5 kg/m², armed between layers. If it is used as a protective paint, is recommended a consumption of 0,8-1,2 kg/m² without arming.

It is recommended to use the complete content of each container in the same application.

2.4. Tools Cleaning

Clean the tools and the equipment immediately with water.

3. SAFETY AND HEALTH INSTRUCTIONS

Always follow the instructions of the Material Safety Data Sheet and adopt the protection measures that are described on it.

4. TECHNICAL SPECIFICATION

4.1. Liquid Product

70% of active substance

Colour:	Grey, white, green, red, tile red and black
Specific weight:	1,3 g/cm ³
Viscosity:	10.000-15.000 cP
Storage:	12 months in dry place at 5 to 25°C
Packaging:	Containers 25kg





4.2. Final product proprieties

Final state:	Membrane 100% aliphatic		
Colour:	According to pigmentation.		
Hardness (Shore):	90A		
Elongation:	>300 % at 23°C		
Tensile strength (at 23°C):	60 kg _f /cm ² (5,88 MPa)		
Water absorption	< 5%		
Service Temperature:	-20 a 90°C		
QUV Accelerated Weathering Test (4h UV at 60°C(UVB lamp) and 4h cond. at 50°C):	Passed 2000h		
Chemical resistance:	Agent	Conditions	Result
	Sodium hypochlorite	10 days at 50°C	ok
	HCl 1N pH = 0,5	10 days at 25°C	ok
	Isopropyl alcohol 5%	No permanent swelling	
	KOH 15%	10 days at 25°C	ok
	Sulfuric acid 5%	10 days at 25°C	ok
	Orthophosphoric acid	10 days at 25°C	ok

NOTE: Recommendations, that can be provide, are based on our current knowledge, whose objective is to advise workers in the using and handling of the products. The handling of the products is out from our control, therefore, customers is responsible of their activities.