

DESCRIPTION

POLIUREQ C 601 F is a two-component, **FLEXIBLE** polyurea based membrane, for manual and airless gun application, with high performance and waterproofing. Cold polyurea is used in the waterproofing of roofs, terraces, swimming pools, water tanks, roofs with heavy traffic and buildings where total waterproofing is required.

Its excellent waterproofing properties and high adhesion to the substrate make it especially suitable for preventing the water penetration, corrosion and frost; it has also good chemical resistance to acids and alkalis.

Its easy manual application make it suitable for either hot polyurea repairs or new construction.

POLIUREQ C 601 F is self-leveling for flat and regular surfaces. For slopping or vertical surfaces (walls) it is recommended to add between 0.5% and 1.5% of **AD RHEOLÓGICO POLYUREA** or to apply in 2 or 3 layers of 0.200 kg/m² each. Since it is an aromatic polyurea, it must be protected from UV rays to avoid yellowing with **EQPOL 40 FLEX** aliphatic polyurethane paint (aliphatic topcoat).

FIELDS OF APPLICATION

- Waterproofing of decks, terraces, balconies and roofs.
- Waterproofing of sports grounds and stands.
- Waterproofing of swimming pools, ponds, water parks.
- Waterproofing of water tanks.
- Waterproofing of waste water.
- Waterproofing of roofs and walkable roofs with heavy traffic.
- Waterproofing and protection of concrete.
- Waterproofing of inverted roofs, garden roofs
- Waterproofing of under terrazzo and ceramic or Catalan tiles
- Waterproofing of outdoor parking (consult technical department and follow additional recommendations of the PARKING SYSTEM).

POLIUREQ C 601 F is part of the following systems:

- **POLIUREQ C SYSTEM SWIMMING POOL AND AQUATIC FACILITIES**
- **TRANSFERABLE ROOF SYSTEM** (heavy traffic)
- **INVERTED, LANDSCAPED OR CERAMIC ROOF SYSTEM**
- **OUTDOOR PARKING SYSTEM**

Please contact our Technical Service for any application not included in this list of Systems.

TECHNICAL CHARACTERISTICS

	"A"	"B"	"A" + "B"
Presentation:			Two components
Color:			According to RAL letter
Specific weight:	1.42 ± 0.05 kg/l	1.23 ± 0.05 kg/l	
Solid content:	> 95%	-	
Viscosity at 23°C: (R2 spindle at 20 rpm)	1300-2100 mPas	210 mPas	
Catalyst:			POLYUREQ C 601 F "B"
Mixing ratio: (in weigh)			455/100 without pigment 480/100 with pigment
Mixing ratio: (in volume)			390/100 without pigment 410/100 with pigment
Indicative consumption: (*)			1.5 to 2.5 kg/m ² : <ul style="list-style-type: none"> • 1.5 kg/m² Walkable roofs • 2.0 kg/m² Swimming pools, water tanks... • 2.5kg/m² Parking, water treatment plants, WWTP...
Application:			Roller, notched trowel, rubber lip or airless gun
Gel Time: (**)			Approx. 25 to 30 minutes
Touch dry: (**)			Approx. 2 hours
Repainting time:			Between 6 and 24 hours
Curing time: (**)			24 hours (***)

(*) Normal consumption depends essentially on the condition of the surface and the thickness required, as well as on the system to be applied (**) Data at component temperature 23 °C , if higher, curing time may decrease, if lower, curing times may increase. (***) This is a time for start-up. If it is going to be subjected to high pressures or stresses, it is advisable **to allow it to cure for at least 72 hours before its start- up** .

PREVIOUS TREATMENT OF SURFACES

Cementitious substrates: New concrete must be cured for at least 28 days and must have a pull-out resistance ≥ 1.5 N/mm². Cementitious or mineral substrates should be prepared mechanically using abrasive blasting or scarifying equipment to remove the surface laitance layer and to obtain an open textured surface. Any loose particles and weak concrete must be removed. Substrate repairs, joints fillings, pits/gravel nests and surface leveling must be carried out with the appropriate products.

Any sharp elements must be removed, for example, with sanding. Outgassing is a natural phenomenon of concrete that can cause bubbles in subsequent layers that are applied.

Moisture content, air entrapment in the concrete and surface finish should be carefully checked prior any application. Applying the membrane when the temperature is falling or stable can reduce outgassing. Therefore, it is generally beneficial to apply the soaked layer in the afternoon or at night.

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APPLICATION METHOD

Cold Polyurea **POLIUREQ C 601 F** can be applied to a variety of substrates, which must be adequately prepared to optimize the adhesion of the membrane. In general, the following factors must be taken into account prior to application:

- Repairing the substrate (filling holes, removing irregularities, removing old waterproofing).
- Singular point works (wall encounters, drains/evacuations, expansion or structural joints)
- Substrate cleaning, removing dust, dirt, grease or existing efflorescence.
- The substrate must be cohesive.

If in doubt, it is recommended to apply in a limited area to verify correct application.

To carry out the application, the two components must be carefully mixed in the proportions supplied and homogenized with a low-speed mixer. Start the application immediately, since the reaction between both components starts from the moment of mixing and **the application time should not exceed 30 minutes** to obtain the correct leveling properties .

It is not advisable to split the containers. In conditions of high relative humidity and condensation or water **spills** before the product has cured, carbonation of the product (bleaching) may occur.

Before applying **POLIUREQ C 601 F** Cold Polyurea over the primer layer, the curing times given in this document must be respected.

For application with a notched trowel, it is recommended to leave around 2 mm thickness to ensure the tightness of the membrane. Application with a trowel allows the correction of irregularities, and it is recommended to use a spiked roller to deaerate the membrane and obtain a more even surface.

Instructions for use:

Shake component A to ensure homogenization of the product and incorporate the pigment if it has been supplied separately. Stir until completely homogenized.

Add component B to the pigmented mixture and stir at low speed (400-600 rpm), to avoid the incorporation of air, until completely homogenized.

Manual Application:

Roller: Application with a high-quality long-haired roller (nota that this application system will result in a thin layer).

Trowel or handle: Pour the Cold Polyurea **POLIUREQ C 601 F** on the prepared surface and spread it with the notched trowel or handle until the whole surface is covered.

Airless gun application:

Application with **Airless Gun is possible**, where 400 microns of thickness can be achieved vertically and with one hand. The conditions are:

- Airless gun with 180-200 atm pressure at the nozzle tip.
- Nozzle: 35"
- Do not dilute.
- Application Time at 20°C: 10 minutes
- Application Time at 30° C: 7 minutes
- Cleaning diluent: **EC DILUENT**

To reinforce problem areas such as half-rounds, chimneys, pipes, siphons, etc. it is recommended to reinforce with **mesh**.

Consult with the Technical Service for the primer to be used according to the type of the support on which the **POLIUREQ C 601 F** cold polyurea will be applied. Consult the technical data sheet of the primer to be used and respect its specifications.

To improve the mechanical anchorage of the cold polyurea **POLIUREQ C 601 F** on the primer, a light dusting of dry silica sand can be done on this primer. Sweep or vacuum the non-adhered aggregate the next day.

Do not add solvents or other substances that may affect the properties of the material.

If the times between primer and membrane or between membrane and membrane cannot be respected, an adhesion activator must be used to activate the base film.

POLIUREQ C 601 F must be protected from UV rays in all cases.

-TO BE CONTINUED-

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-CONTINUATION-

Protective finish of POLIUREQ C 601 F:

It is coated in order to increase its chemical-mechanical and UV resistance.

The usual finishing and protection layers are:

- **PISCIPUR** : For waterproofing of swimming pools
- **EQPOL 40 FLEX** : For waterproofing of walkable roofs – heavy traffic use and parking finish. (Consult our Technical Department)

DRY FILM CHARACTERISTICS

- Forms a flexible waterproof membrane, with no overlaps or welds.
- Excellent crack bridging capacity.
- Easy application by trowel or harrow (roller applications may require more coats than necessary to achieve the required thickness).
- Solvent free.
- Once cured the membrane has excellent mechanical properties.
- Puncture resistance.
- Water resistant (long-term exposures).
- Fully adhered system.
- Coverable after a few hours.
- Remains flexible at low temperatures (-30°C).
- Thermally stable, does not soften at high temperatures.
- Non-slip (Sprinkle **AD NONSKID 520**)
- Walkable with good comfort
- Frost resistant
- Global Migration below the limits established in article 12 of EU Regulation 10/2011 on plastic materials and objects intended to come into contact with foodstuffs.

Elongation at break: 70%
Tensile strength: 8.59 MPa
Abrasion resistance: 470 mm³
Shore A/D hardness: 80/40

PRECAUTIONS

The application must be carried out with abundant supply of air or by means of a suitable ventilation systems.

Use personal protective equipment to avoid ingestion, inhalation or skin contact. Normal fire precautions must be observed during application.

Keep containers tightly closed after use. Do not empty into drains.

Storage stability: 1 year in its original sealed containers under good storage conditions, at temperatures between +5°C and 30°C.

OBSERVATIONS

We guarantee the quality of our products in accordance with our general conditions of sale and delivery. Our technical recommendations for use, whether given orally, in writing or by means of tests, are based on our current knowledge and experience. They are simple indications which do not imply any responsibility on our part, nor do they release you from the need to verify by means of your own checks and tests, that the products supplied by us are suitable for the processes and purposes envisaged by you. The application and use of the products are beyond our control and therefore entirely your own responsibility, and we cannot be held responsible for results other than those shown here. Our safety recommendations do not prevent you from determining your own measures, adapted to the conditions of your facilities. We reserve the right to change the data contained herein, without prior notice, in accordance with technological developments.

POLIUREQ C 601 F - Edition 08-11-23 - Cancel the previous versions

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