



**INNOVACHEMICAL**  
a green company for a better world

# TECHNICAL DATA SHEET

Bi-component  
Polyurethane water based  
INNOVA

## Bi-component Polyurethane water based INNOVA

The Bi-component Polyurethane water based Innova is a waterproof coating, made of aliphatic polyurethanes, with high resistance to washing and weathering (Comp A) and an aliphatic isocyanate without solvents (Comp B), recommended to be used over the Microcement coatings, concrete, printed concrete, polished cement and wood.

With the application of the Bi-component Polyurethane water based Innova, you achieve:

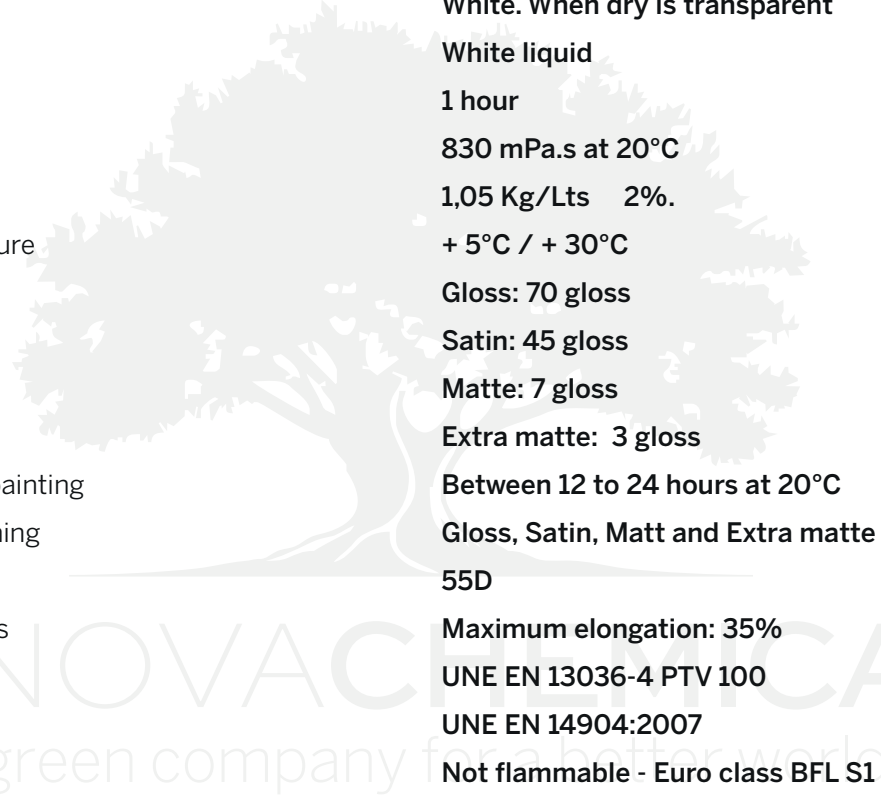
- Protection of the microcement coating, cement and wood.
- Enhancement of is aesthetic finishing.
- Tree different finishing: gloss, satin and mate.
- Increased resistance to abrasion.
- Complete waterproofing of the surface.
- It allows to clean the surface where is applied, with any type of chemical product.
- Resistant to chlorhydric acid.

### Technical data componente A + B

|                          | A Component                         | B Component                          |
|--------------------------|-------------------------------------|--------------------------------------|
| Type                     | High resistance polyurethane resins | Aliphatic isocyanate without solvent |
| Color                    | White. When dry is transparent      | Transparent                          |
| Appearance               | Liquid                              | Liquid                               |
| Viscosity                | 870 mPa.s at 20°C                   | 450 mPa.s a 20°C                     |
| Specific weight at 20 °C | 30%                                 | 100%                                 |
| Point of combustion      | >200°C Water base BII               | >100°C                               |
| Packaging                | 0.840 kg<br>4,20 kg<br>16.8 kg      | 0.160 kg<br>0.8 kg<br>3.20 kg        |

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### Technical data of the A + B mix



|                             |  |
|-----------------------------|--|
| Mix proportion              | 5 parts Comp A / 1 part Comp B   |
| Color                       | White. When dry is transparent   |
| Appearance                  | White liquid   |
| Mix duration at 20 °C       | 1 hour   |
| Viscosity                   | 830 mPa.s at 20°C  |
| Density at 20 °C            | 1,05 Kg/Lts 2%.  |
| Application temperature     | + 5°C / + 30°C   |
| Degree of gloss             | Gloss: 70 gloss<br>Satin: 45 gloss<br>Matte: 7 gloss<br>Extra matte: 3 gloss |
| Minimum time for repainting | Between 12 to 24 hours at 20°C   |
| Finishing after hardening   | Gloss, Satin, Matt and Extra matte   |
| Hardness                    | 55D  |
| Mechanical properties       | Maximum elongation: 35%  |
| Slippery                    | UNE EN 13036-4 PTV 100   |
| Friction                    | UNE EN 14904:2007  |
| Fire resistance             | Not flammable - Euro class BFL S1  |
| Abrasión resistance         | Taber CS-17/1000g < 50 mg  |
| Impact resistance           | IR 14,7  |
| Shipping                    | Material not dangerous   |
| Storing                     | Material not dangerous   |

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### Use instructions

In absorbing surfaces, apply previously a layer of STD Sealer Innova.

Mix the two components, using an electric mixer, until you get a perfect homogeneous mixture. Is done using the following proportions: 5 parts of Polyurethane (component A) to 1 part of Hardener (component B). It is important to mix completely the two components to avoid the appearance of areas of different grades of gloss due to a deficient .

To achieve an extra hardness and resistance to scratching, especially on pavements with heavy traffic of people or greater wear, you can make the mixture in the following proportions: 4 parts of Polyurethane (component A) for 1 part of Hardener (component B).

After the correct mixing is done you should filter the mixing using a metallic strainer.

Once the mixing is filtered if you notice the formation of small bubbles, you should wait 5 minutes before you start the application.

Apply one layer, in an orderly way without stretching too much the product, ensuring that no area is left uncovered, and without excesses, creating a layer of the thickness of a paper sheet. Cover very well all the areas with water contact and the joints where the water can penetrate. In vertical areas make sure that the product doesn't create drops that slide down. Use the roller to fix the situation.

A too thick layer can produce:

The products drops (in walls).

A too slow drying.

Decreased hardness due to excess of product. Remember that the recommended amount of product (once soaked in the roller), by m<sup>2</sup> is 60 to 80 g.

Apply a second layer exactly like the first. In areas with water contact, we recommend to apply 3 layers.

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Before the application of the second layer of Bi-component Polyurethane water based Innova, make sure that the first layer is completely dry, approximately 8 to 12 hours, depending of the site ventilation and temperature.

This product needs a good ventilation in the room where it is applied.

The life span of the product once mixed is about 1 hour, after that you will notice an increased viscosity and the hardener properties will be lost. Is recommended to use the mixed product in less than 1 hour.

The drying time before use the surface is minimum 72 hours. The minimum time of wait before put the surface in contact with water is 1 week.

The product is presented ready to use, we do not advise its dilution, which would cause loss of properties of hardness and waterproofing.

Apply directly with a varnish roller, a brush or an airless system over a dust free surface. We recommend brushing the surface after apply the product to remove possible air bubbles, especially on very hot, dry and highly ventilated site.

Clean all tools with water.



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### Drying times

The drying of the Bi-component Polyurethane water based Innova depends on the temperature, ventilation and humidity.

| temperature | Humidity | Dryinig Time (Aprox) |
|-------------|----------|----------------------|
| 35°C        | 40%      | 10 a 12 hours        |
| 35°C        | 10%      | 8 a 12 hours         |
| 20°C        | 40%      | 8 a 10 hours         |
| 20°C        | 10%      | 6 a 8 hours          |
| 5°C         | 40%      | 20 a 25 hours        |
| 5°C         | 10%      | 15 a 20 hours        |

### Ultra violet ray resistance

Bi-component Polyurethane water based Innova is an aliphatic product. It is completely resistant to the action of UV rays and does not yellow to the outside.

### Resistance to chemical products once applied

| Product           | Resistance 24 H | Resistance 10 días |
|-------------------|-----------------|--------------------|
| Water             | 10              | 10                 |
| Thinner           | 0               | 4                  |
| Alcohol           | 0               | 4                  |
| Ammonia           | 0               | 7                  |
| Hydrochloric acid | 5               | 9                  |
| Peroxide          | 0               | 3                  |
| Pure bleach       | 5               | 8                  |

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| Product           | Resistance 24 H | Resistance 10 días |
|-------------------|-----------------|--------------------|
| Hairdressing dyes | 0               | 1                  |
| Acetone           | 0               | 0                  |
| Gasoline          | 2               | 7                  |
| Hot cooking oil   | 4               | 10                 |
| Coffee            | 8               | 10                 |
| Wine              | 9               | 10                 |
| Lemon             | 6               | 10                 |
| Coca cola         | 7               | 10                 |
| Beer              | 10              | 10                 |

### Efficiency

With 1 liter of Bi-component Polyurethane water based Innova, you can cover approximately 15 to 20 m2 of surface, depending on the absorption of the support and the thickness of the applied layer.

We recommend 2 layers on surfaces with no contact with water and 3 layers on surfaces with contact with water or humidity (exterior surfaces, shower plates, WC or kitchen worktops, etc.)

### Recommended finishes

Floors: we recommend, without exception, that you apply on floors, interior and exterior, the Bi-COMPONENT POLYURETHANE water based Innova GLOSS, for a better cleaning of the surface. The Mate floor many times gives to the customers the impression of being not-finished, old and dirty.

Walls: In walls, you can apply any of the 3 available finishes: Matt, Gloss or Satin, according to the customer choice.

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### Packaging

The Bi-COMPONENT POLYURETHANE water based Innova for all types of finishing: Glossy, Satin, Matte or Extra matte. Is available in 3 different recipients:

Recipient of 1 kg (0,83 kg of Component A + 0,17 kg of Component B).

Recipient of 5 kg (4,16 kg of Component A + 0,84 kg of Component B).

Recipient of 20 kg (16,7 kg of Component A + 3,3 kg of Component B).

### Storing

12 months, in a dry place protected from bad weather, in original recipient hermetically closed.

### Recomendations

Do not dilute the product with water or solvents.

Never apply the product on substrates that are wet, damp or have capillary moisture. Do not apply the product if there is a humidity in the environment of more than 50%.

Do not apply in layers greater than 0.1 mm. Respect the recommended drying times. A good ventilation is necessary in the rooms where it is applied.

Do not apply with risk of frost or rainy weather. Do not apply at temperatures below 5°C or above 35°C.

Never leave any of the layers in half, once the application is started, continue until its completion without stopping, so you do not see cuts, encounters or joints. If the surface is very large, several people must make the application at the same time.

Protect furniture, chairs or tables with protective felts.



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Merchandise considered not dangerous in matters of transport. It is water based, free of solvents, alcohols or flammable products.

Use the appropriate PPE, contains cement, and irritates the eyes. Do not place children within reach, avoid contact with eyes and skin through appropriate PPE. In case of contact with the eyes, rinse thoroughly with water and consult your doctor in case of subsequent discomfort.

Once the application is finished, let it dry completely and let it run for at least 4 days before doing other types of work and 7 days before moistening or receiving water.

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The data in this technical sheet are based on trials and tests made by Innova Chemical SL and by the information supplied by our raw material suppliers.

A dosage, mixing or application different from that described in this technical sheet would make us decline any responsibility if the final result is affected by factors beyond our control

The customer must verify that the use of the product is correct, carrying out a previous test in each case that is necessary and thus checking its operation and final finish.

For any questions or queries, do not hesitate to contact technical department of Innova Chemical SL.

Revision date: MAY 2019.

The present edition of this data sheet cancels the previous ones.

