

## TECHPHEN 2175

Primer and finish phenolic epoxy, cured with polyamine, high thickness. It provides excellent chemical resistance including several solvents, excellent anti-corrosion resistance, mechanical resistance and abrasion. It also has excellent surface hardness. This paint has a low content of volatile organic compounds (LOW VOC).

### RECOMMENDED USES

Indicated for highly aggressive environments, where chemical resistance, abrasion resistance and hardness superior to conventional epoxies are required. This product is especially recommended for painting blasted carbon steel and concrete surfaces (painted with recommended primer), in paper and cellulose factories, chemical and petrochemical industries, steel mills, sugar mill components and alcohol distilleries. It offers excellent protection for the internal part of storage tanks for acid or alkaline solutions, internal part for solvent storage tanks, carbon steel floors subject to spills or splashes of solvents or chemicals.

### PRODUCT CHARACTERISTICS

<b>Color:</b>	White, gray and others on request
<b>Finish:</b>	Semi gloss
<b>Weigh solids:</b>	88 % $\pm$ 3
<b>Volume solids:</b>	75 % $\pm$ 2
<b>VOC:</b>	169 g/L
<b>Density:</b>	1,40 g/cm <sup>3</sup> (approximate value)
<b>Flash point:</b>	23 °C
<b>Shelf life:</b>	Part A: 24 months Part B: 06 months
<b>Pot-Life (25 °C):</b>	2 Hours

### APPLICATIONS DATA

<b>Spreading rate per coat:</b>	<b>Minimum</b>	<b>Maximum</b>
	Wet – 200µm	267 µm
	Dry – 150 µm	200 µm

<b>Theoretical coverage:</b>	4,10 m <sup>2</sup> /L to 150 µm
	3,41 m <sup>2</sup> /L to 200 µm

<b>Reducer:</b>	TechSolv 9400 - Dilute up to 25% by volume Check environmental conditions first and application method
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<b>Packaging:</b>	Part A: 2,88 L or 16,00 L Part B: 0,72 L or 4,00 L
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# TECHNICAL DATA SHEET

<b>Applications methods:</b>	Airless Spray, Conventional Spray, Brush and Roller	
<b>Mix Rate:</b>	<b>By mass</b>	<b>By Volume</b>
<b>Part A</b>	100,00	4
<b>Part B</b>	16,70	1

## DRYING TIME

<b>Temperature</b>	25° C
<b>To touch</b>	6 Hours
<b>To handle</b>	12 Hours
<b>To recoat</b>	12 – 48 Hours
<b>To cure</b>	10 Days

Considerations: if the maximum limit indicated for repainting is exceeded, it will be necessary to sand the surface. Relative humidity condition: 55 to 80%.

The pot life is variable with the temperature (high temperatures decrease pot life, while low temperatures extend pot life). For this reason, we recommend keeping the material catalyzed in covered environments, avoiding direct sunlight on the product. When this is not possible, pay attention to the catalyzed quantity, decreasing as much as possible in the prepared volume. As it is a two-component product (chemical reaction curing), it is normal to have its curing delayed when in low temperatures. The ideal is to guarantee a temperature of at least 15 °C for the reaction to happen.

## DRY HEAT RESISTANCE

Continuous 90°C / Discontinuous 120°C. Organic coatings can undergo changes in color, brightness and adhesion when exposed to temperatures above 60°C.

## SURFACE PREPARATIONS

Every surface to be painted must be clean, dry and free from contaminants, such as: oils, salts, greases, fats, dust, etc.

Wash with high pressure fresh water (HPFW), as appropriate, and remove all oil or grease, soluble salts and any other contaminants, in accordance with the SSPC-SP1 solvent cleaning method.

Carbon steel with lamination scale: abrasive blast cleaning must be carried out on at least almost white metal, visual standard Sa 2 ½ of ISO 8501-1.

New works and paintings in general: we recommend painting on surfaces sandblasted to Sa 2 grade according to SSPC SP10 or SSPC-SP5 respectively. ISO 8501-1 visual standard.

Assess the surface after blasting, observing the presence of surface defects revealed after treatment, adopting appropriate practices to minimize defects through grinding or filling. A roughness profile of 10 to 15 micrometers is recommended.

On aged paint, sand superficially and remove loose particles.

Note: The average height of the roughness profile should be between 1/4 to 1/3 of the total thickness of the painting scheme or at most up to 2/3 of the thickness of the background paint.

Rusted carbon steel, grade C: cleaning with mechanical tool Standard SSPC-SP3 visual standard St 3 Standard ISO 8501-1.



# TECHNICAL DATA SHEET

Note: If the maximum interval indicated for the application of the subsequent finishing coat is exceeded, manual / mechanical sanding using sandpaper to break the shine is necessary. This procedure is necessary to obtain adhesion between the layers.

## SAFETY RECOMMENDATION

The product is supplied in two packages. Homogenize the contents of each package by means of mechanical or pneumatic agitation. Ensure that no sediment is trapped at the bottom of the package. After homogenization, add component B to the component in the mixing ratio indicated in this technical sheet. Homogenize again.

### Airless Spray:

**Use Airless**..... 60:1  
**Fluid pressure**.....1800 – 2000  
**Hose** ..... 3/8" inner diameter  
**Nozzle**.....0,015" to 0,019"

### Conventional Spray

**Gun**..... JGA 502/3 Devilbiss  
**Fluid Nozzle** ..... EX  
**Air cover**.....704  
**Atomization Pressure** ..... 60 - 65 psi  
**Pressure in the tank**.....10 to 20 psi

## SAFETY PRECAUTIONS

Before handling this product, it is essential to carefully read all the information contained in its chemical safety information sheet (MSDS), available on our website or request directly from our Customer Service (0800 487 777).

The surface preparation, handling and use of paints during painting and drying, as they are flammable products, must be carried out in ventilated places, away from flames, sparks or excessive heat, using personal protective equipment (PPE's) appropriate for the stage to be performed.

Contact with the skin can cause irritation.

If swallowed, do not induce vomiting. In case of contact with eyes, wash them with plenty of water. In any case, seek medical attention immediately.

Do not smoke in the work area.

Make sure that the electrical installations are perfect and that they do not cause sparks.

Do not use thinner to clean the skin, hands and other parts of the body. To clean your hands use alcohol, then wash with water and appropriate cleaning pastes.

In case of fire, use CO<sub>2</sub> or chemical powder extinguishers. It is not recommended to use water to extinguish the fire produced by burning the paints.

Paints and thinners should be stored in ventilated areas and protected from weathering. The temperature can range from 10 to 40°C.

In the event of symptoms of intoxication by inhaling chemical vapors, the intoxicated person should be removed immediately from the workplace to ventilated areas.

In case of fainting, call a doctor immediately.

Product intended for use and handling by professionals connected to the painting area.

The application and use of this product must be carried out in compliance with all National Health, Safety and Environment rules and regulations.



# TECHNICAL DATA SHEET

If it is necessary to carry out removals of the paint already applied and hardened from the substrate, the operator and people who are in the same environment must use personal protective equipment (PPE), appropriate as indicated in the safety information sheet (MSDS).

Store the product in sheltered, ventilated environments with a maximum temperature of 40 ° C. In situations that occur when welding metal parts painted with this product are required, dust and gases (smoke) will be released, which will require the use of equipment. appropriate personal protection (masks with activated carbon filters and even air conditioning equipment) according to each environment.

Applications in confined areas require adequate ventilation, in addition to specific methods and procedures. For these situations contact the security area of your company.

## **NOTE**

The practical performance of this product varies according to the thickness applied, method and technique of application, type and roughness of the substrate and environmental conditions, etc.

The values found for the tests of: specific weight and drying (with the specified thickness) were obtained in the laboratory at a temperature of 25°C. With temperatures different from that mentioned, the values established above tend to be different from those specified.

The instructions contained in this bulletin are based on our experience and technical knowledge, however, some factors are independent of our control as a manufacturer, such as: surface preparation, application, working conditions, etc.

The use of a thinner other than that specified without the prior approval of the technical department of AnjoTech may affect the performance of the product and void its warranty.

We do not assume any responsibility for material and personal damages caused by the misuse of the information contained in this bulletin and the products mentioned.

This bulletin is subject to change without notice.