



# Industrial Primer paint: Types and Characteristics



In industrial primer environments, where daily surface wear and exposure to physical and chemical elements are high, proper selection of industrial primer and coatings is important when painting or re-painting to achieve optimal finishing, resistance and durability over time.

When choosing an industrial primer or other type, there are several conditions to consider. Therefore, in this content, we will focus on providing valuable information to [industrial primer](#) customers in their decision making process.

Knowing the types of existing industrial primers, their characteristics and types of applications will help you to identify potential problems and better guide the application needs.

## What is industrial Primer paint?

Technically, we can say that industrial Primer paint is a product that is presented in the form of a liquid, paste or powder and applied to the surface by a proper process, it is converted into a solid, plastic, adhesive film that protects. / Or decorates at the same time.

By focusing on the [industrial Primer](#) paint sector, we can define industrial Primer paint as a product engaged in the process of painting, preservation and maintenance of any product related to structure, machinery, consumer goods and specific industrial sectors.

# Types of Industrial Primer Paint

**Industrial Primer paint:** It is necessary to choose a selective classification of different types of paints and cores because of their composition, their position in the finish system or the way they can be applied to paints with different meanings. .

## Depending on the position in the finishing system

In order to fulfill the protective and decorative functions of [industrial Primer](#) paint , it is necessary to know the details of each painting system and experience. We can classify industrial paints by location in the application quote:

### Primer

These are the first coatings of paint that are in direct contact with the substrate, with high pigmentation and low binder content.

Its purpose is to act as an anchor for the following paint coatings and to prevent rust on the metal surface with the help of corrosive pigments. Types of primers for industrial paints.

### Intermediate coats of paint

These coats are applied over the primer, usually for the purpose of increasing the thickness of the paint system, to avoid giving too much coat finish, reducing the cost of application. The amount of pigment / binder is lower than primers but higher than finishing paints. Nowadays, high thickness winter coats are widely used to obtain 100 or 200 micron films per coat.

### Finishing paints

As the name implies, they are applied on an **industrial primer** or on an intermediate coat, as a final covering of the painting system. They are made with a low pigment / binder ratio to achieve excellent permeability and strength characteristics. Although satin and matte finishes are in high demand in the market, they are usually dyed gloss.

### Varnishes

These are coatings made of binders and solvents. Industrial paint varnishes have two main purposes: on the one hand, to beautify the painted part and, on the other hand, to provide additional protection from external elements or mechanical influences. There are many types: synthetic varnish, acrylic varnish, polyurethane varnish, gloss effect, matte effect etc.

# Characteristics of industrial Primer paint

**Industrial Primer paint:** Any type of paint, regardless of its composition, application or function, can be defined by a series of measurable features that work to be controlled by the manufacturer and user and to determine if the product is in good condition. And adheres to features. In **industrial Primer** paint, these characteristics can be divided according to the condition of the paint: liquid paint or dry paint.

## Features of liquid paint

Among the main measurable characteristics of liquid paint are

- **Stability:** Paint must have a uniform, bundle-free appearance in its packaging.
- **Viscosity:** is one of the most visible features of paint and affects its stability and application. This indicates the consistency of the product. The ambient temperature affects the viscosity of the paint.
- **Specific Gravity or Density:** Indicates unit weight in volume. This is important information to consider as it calculates returns. The higher the specific weight, the lower the return.
- **Fine grinding:** Good diffusion of pigments and binders ensures the quality of the paint and allows it to take full advantage of the pigment's color strength, improving the use and leveling of the paint. In gun-spray applications, this should be taken into account as the fineness of the paint depends on the diameter of the nozzle.
- **Solid content by weight or volume:** percentage of total paint pigment and binder. This aspect affects the price and quality of the paint.
- **Product life:** In 2-component paints, it is important to know how long the mixture can be used after preparation. It will depend on the environmental conditions along with other factors.
- **Application:** Must be in good condition to apply paint after moving. If you add solvent, the amount must be right to get good viscosity, without reducing the number of solids too much.

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