Technical data sheet

cerfobol R 75

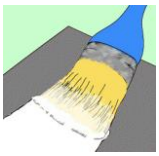
cerfobol R 75 is a water repelling agent suitable for water borne paints and wall primers.
It's a water based emulsion of organic polymers with high water repellent effect.
cerfobol R 75 is designed for use in plastic coatings, decorative paints, interior and exterior wall paints.
For exterior uses is particularly suggested the use of **cerfobol R 75** in combination with **esaplast G 12**.

Chemico-physical characteristics

Chemical description:	water emulsion of organic polymer
Appearance:	milky liquid
Solid Content:	30% approx.
Density:	0.85 - 1.00 g/ml approx. (20°C)
pH:	11 approx. (5% w/w solution)
V.O.C.:	free*
A.P.E.O.:	free

** No VOC according to ISO 11890-2:2006*

Main applications and dosages



Decorative paints – water based paints for interior or exterior use::
Interior use (high PVC): **1 - 4% cerfobol R 75**
Interior and exterior use (low PVC): **0.7- 1.0 %** **cerfobol R 75** and **0.5 - 0.7** **esaplast G12**

Dosages are referred to total formulation.

Wall primers:
dilution from **1:2** up to **1:4** in water

Anti-scratch wall primers:
1:2 dilution in water

Properties

During application **cerfobol R 75** forms a film on the coated surface that, after drying, give the support a good water repellent characteristic without affecting breathability. The reason for this behavior is that **cerfobol R 75** is able to create a barrier to water but not to steam.
In this way **cerfobol R 75** can be used as a primer that allow wall transpiration representing a valid alternative to standard primers based on latex.
Moreover **cerfobol R 75** film prevents adhesion of atmospheric dust, which often compromises the aspect of the final result, and is able to create a good anti-scratch barrier.

Rain effect on a surface coated with a water borne paint containing **cerfobol R 75** (sample on the right).

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Packaging and storage

cerfobol R 75 is available in drums and IBC.
cerfobol R 75 should be stored in closed containers at a temperature > 5°C.
It has to be protected from frost.
In this storage conditions the chemico-physical characteristics of the product are stable up to 8 months from the date of production.
It's possible to use the product up to 12 months provided it is kept in good condition to avoid thermal shock and temperatures over 35 °C.

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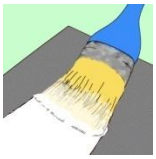

Plastic coatings, Interior and exterior wall paints and decoratives

Application characteristics

cerfobol R 75 is designed to be used as a repellent in decorative paints, plastic coatings, interior and exterior wall paints.
cerfobol R 75 can be added at the end of pigment dispersion or after the addition of resin emulsion.
In formulations for external use it's suggested to use **cerfobol R 75** in combination with the plasticiser **esaplast G 12**. In this case products have to be added separate.
Dosage should be balanced on the formulation in use according to the water repellency of its charges.

Two water droplets have been put on two layers of dry paint:

- On the left sample (without **cerfobol R 75**) there is spot due to water absorption.
- On the right sample (with **cerfobol R 75**) the surface remains unaffected.

After the previous experiment water is removed from the surfaces:

- On the left sample (without cerfobol R 75) the layer is still wet.
- On the right sample (with **cerfobol R 75**) the film is completely dry.

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cerfobol R 75

Wall primer

Application characteristics

Different values of absorption between substrates can be troublesome in gypsum or cement plaster application and so primers are commonly used.
In these applications dispersions of resins are generally used to form waterproof films that don't allow wall transpiration.
A primer consisting of **cerfobol R 75** creates an hydrophobic film that reduces water absorption by the support without changing wall transpiration.

- On the left the sample is applied to the untreated portion of the brick.
- In the central portion of the brick the sample is applied on a surface treated with a primer containing 33% **cerfobol R 75** solution.
- On the right there is the sample on the portion of brick treated with a primer containing 20% **cerfobol R 75** solution.

- In the left sample there are cracks and a spot of absorbed water.
- In the central sample (33% **cerfobol R 75** solution) there aren't cracks or spots.
- In the right sample (20% **cerfobol R 75** solution) there aren't cracks or spots.

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