



# TECHNICAL DATA SHEET

## KAPLAN PRO

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### PRODUCT DESCRIPTION

#### Type

A premium acrylic styrene emulsion exterior paint with resistant to weather elements. Because it Kaplan pro delivers outstanding durability with the widest selection of colours.

#### Features and benefits

**No unpleasant smell**- emulsion paint has no petroleum diluents and unpleasant smell due it

**UV Protected colours** - Colours last longer than other exterior paints due to mineral pigments.

**Dirt Resistance** - Paint film resist dirt pickup from the environment and is easily washed off by the rain.

**Reduces Temperature** -light Paints almost reflects sunlight therefore reduce the surface temperature and cools your homes or buildings compare to bare concrete.

**Anti Algae & Anti Fungal** - Long lasting protection against fungus and algae in tropical climates.

**Water Resistant** - Resist water ensuring less stain marks.

**Formulated without Harmful Chemicals** - Free from harmful chemicals such as APEO, formaldehyde, heavy metals and has low volatile organic compound (VOC).

#### Recommended use

For washable interior walls and exterior application, suitable for new buildings or repainting.

#### Substrate On

concrete, masonry, plaster and brickwork.

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### PRODUCT DATA

Kaplan pro is available at three grades of sheen including eggshell, satin and gloss. For choose right paint please check "suitable paint choose" guide at [www.polyface.ir](http://www.polyface.ir)

<b>Sheen grade</b>	eggshell
<b>Packaging size</b>	packing in 4, 7, 14 and 25 kg plastic buckets
<b>Colours</b>	As per the colour available in Kaplan colour catalog (Exterior range).
<b>Solids</b>	55± 2 volume%
<b>PVC</b>	45±2 %



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# TECHNICAL DATA SHEET

<b>Sheen grade</b>	satin
<b>Packaging size</b>	packing in 4, 7, 14 and 25 kg plastic buckets
<b>Colours</b>	As per the colour available in Kaplan colour catalog (Exterior range).
<b>Solids</b>	55± 2 volume%
<b>PVC</b>	35±2 %

<b>Sheen grade</b>	gloss
<b>Packaging size</b>	packing in 4, 7, 14 and 25 kg plastic buckets
<b>Colours</b>	As per the colour available in Kaplan colour catalog (Exterior range).
<b>Solids</b>	55± 2 volume%
<b>PVC</b>	25±2 %

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## APPLICATION DATA

### Remarks

Handle with care. Stir well before use.

### Application methods

By brush, roller, airless spray or conventional spray.

### Guiding data for airless spray

<b>Nozzle tip</b>	.021 - .027
<b>Spray angle degrees</b>	65° - 80°
<b>Pressure at nozzle</b>	2100 psi

### Conditions during application

The temperature of the substrate should be minimum 10 °C and at least 3 °C above the dew point of the air, measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying.



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# TECHNICAL DATA SHEET

## Recommended film thickness per coat

**Dry film thickness** : 55 - 88 microns ( $\mu\text{m}$ )

**Wet film thickness** : 100 - 160 microns ( $\mu\text{m}$ )

Film thickness will vary and is calculated as average.

## Thinner

water

## Dilution

The paint is ready to use after proper stirring. If thinning is required, water may be added up to a maximum of 10%. For conventional spray water may be added up to 20%

## Drying times

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with: Good ventilation (Outdoor exposure or free circulation of air) Typical film thickness One coat on top of inert substrate The given data must be considered as guidelines only. The actual drying time and time before recoating may be shorter or longer, depending on the ambient temperature, film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc.

1. Recommended data given is, for recoating with the same generic type of paint.
2. In case of multi-coat application, drying times will be influenced by the number and sequence and by the total thickness of previous coats applied.
3. The surface should be dry and free from any contamination prior to application of the subsequent coat.

## Relative Humidity (RH) 50 % and Substrate temperature 25°

**Surface (touch) dry**                      2h

**Hard dry**                                      12h

**Dry to over coat**                        4h

## Equipment cleaning

Clean equipment by soap and warm water

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## DIRECTIONS FOR USE

### Surface preparation



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# TECHNICAL DATA SHEET

The substrate must be sound, clean, dry and free from dust, oil, grease etc. All traces of form release agents/curing agents must be removed. A light sanding with suitable abrasive material is recommended before application. Any resulting dust/loose particles must be removed.

## Recommended paint system

### Primer

**Kapamer or Kapamer+** Primer : 1 coat

### Midcoat

**Elastan or Kapisal** midcoat : 1 coat

### Topcoat

**Kaplan pro** : 3 coat

## Storage

Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

## Storage in winter

Water-based paint can freeze at the same temperature that water freezes at (0 degrees centigrade). Freezing temperatures can do permanent damage to the emulsion in paint, causing the paint to become a strange consistency. Paint that has frozen and thawed may become ropey, stringy or clumpy. It may be the consistency of cottage cheese or gritty, like sandy water.

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This Technical Data Sheet has issued by research and development unit in MOBTAKERAN SANAT PAINT AND RESIN company. For more detail please visit our website at [www.polyface.ir](http://www.polyface.ir)