

## PRODUCT GROUP 400

### Series 482-5900

2-C-H<sub>2</sub>O Protection Varnish, Anti-dirt



Water dilutable, chemically reactive protection varnish to optimize resistance of inkjet-printings onto foils, banners, meshes, canvas and much more. This highly flexible and NMP-free protection varnish Series 482-5900 is available in a silky glossy setting. The used basic raw materials are in particular chosen for higher requirements, so that together with hardener, Series 482-HDA (mixing ratio 10:1), a noticeably higher resistance of the lacquered media will be reached. Surface active substances based on nano-scale additives lead to a dirt repulsing, anti-dirt functionality (like Lotus-flower effect) what simplifies cleaning (especially the truck canvas parts at the rear end of the truck) and increases life expectancy.

Outdoor resistance tests as well as years of experience show, that "aging-damages", caused by UV-influences can extremely be caught up! To reach this goal, the printings to be lacquered must be free of evaporating solvents (solvent retention) because this could lead to a reduced adhesion of the water dilutable varnish! This 2-component varnish is not suitable for (Inkjet-) printings with water-, oil- or Ecosol based inks because of possible problems in regards to bonding and adhesion.

Add bonder, Series 482-HDA to the easyPROTECT system, Series 482-5700 (-/MT) – mechanically stirring – until you have a homogeneous, bonded mixture. Afterwards, that means after approx. 15 minutes "setting time", the lacquer is best for use; any foaming which may have occurred is disappeared and rheology (flow properties) are stabilized. For roll/painting applications, the viscosity should be 40-50 seconds (DIN-4 cap / 23°C). To avoid pollution particles in the lacquer, filtration through a filter mesh/fabric is recommended before applying. To reach the optimal protection, approx. 80 µm (wet) should be applied; this correspond to approx. 25 g/m<sup>2</sup> of dry film thickness.



#### SUBSTRATES

Soft-PVC / Rigid-PVC	Polystyrene
Paper, paperboards, cardboards	Vinyl based textiles



#### USE

<b>Application</b>	Plastics in the field of advertisement or for displays, on canvas (tarpaulins), Vinyl- or Polyolefin self-adhesive foils, signals and construction site advertisements/banners, for outdoor use.
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#### PROPERTIES, PROCESSING, DRYING AND MESH

<b>Mesh</b>	-
<b>Drying / Curing</b>	Substrates, treated with the easyPROTECT protection varnish Series 482-5700 (-/MT) and air dried at room temperature (20-25°C) are grip resistant after 2-3 hours, however, not yet completely cured. Complete curing of the lacquered media is only reached after a period of at least 48 hours at room temperature. Drying can considerably be speeded by use of a hot air ventilation (approx. 50°C). The final resistances are completely reached after 5-7 days.
<b>Further Processing</b>	-



#### ADDITIVES

<b>Thinner</b> (spray application)	Tap water Series 400-377	<b>Addition Ratio</b>	5 % by weight (Spray-viscosity: 20-30s, DIN-4 cap/23°C)
<b>Retarder</b>	Series 400-018/09	<b>Addition Ratio</b>	5 % by weight
<b>Hardener</b>	Series 482-HDA	<b>Addition Ratio</b>	10 % by weight





**VARIOUS**

<b>Delivery Conditions</b>	1 kg / 5 kg / 20 kg
<b>Other</b>	See also separate data sheets with application directions!



**Disclaimer**

Please thoroughly read the Material Safety Data Sheet (MSDS) prior to processing. The Material safety Data Sheets according to 91/155/EWG form, contain indications of hazardous ingredients. Exposure levels and instructions for precautions when processing, handling and storing as well as first aid. The information given in the MSDS refers to the processing as described within this technical leaflet. Above data are based on laboratory tests and field experience. All therein contained statements are to the best of our knowledge without any obligation from our side and do not discharge from testing the product by yourself. In doubtful cases, you are kindly requested to either perform your own tests or refer to our technical staff. Application, use and processing of the delivered products are beyond our control and are therefore at your own risk and responsibility. Printcolor is thus free from any guarantees or liabilities. In cases of justified complaints, Printcolor can only be made liable for the counterpart of the utilized ink system. Adding not stated products or foreign / competitors products, is solely at your own risk and liberates Printcolor of any later calls; especially in cases when damages occurred and which have been caused through use of products of foreign type. This leaflet replaces all former issues. (03/2009)

