



UC2K HD Coating

FEATURES & USES

A transparent clear two component hybrid coating of a sol-gel-modified polyether and dissolved SiO₂ with a long lasting gloss and outstanding chemical resistance. A durable low maintenance coating with easy to clean properties and an extreme UV protection.

SPECIFICATION DATA

Type: two component Sol - gel hybrid coating based on a silicone-modified. Sold as concentrate to be diluted up to 100% with Isopropyl alcohol depending on use and application.

Color: transparent clear.

Packaging: Base in 3,5 Ltr. Hardener 1,4 Ltr.

SPRAY APPLICATION

Theoretical coverage m²/Kg.

30 / 50 Sq. meter a kg. depending on surface and application.

RECOMMENDED WET FILM THICKNESS:

30 to 60 microns in one or more coats.

RECOMMENDED DRY FILM THICKNESS:

15 to 30 microns.

Brush / Sponge / Wipe on Application

Theoretical coverage m²/Kg.

40 / 60 Sq. meter a Kg. depending on surface and application.

RECOMMENDED WET FILM THICKNESS:

Same as spray application.

RECOMMENDED DRY FILM THICKNESS:

Same as spray application.

Anticipated Cure Time at 20°C / 65% R.H.:

Dust dry in app. 2,5 hours, 24 hours to light service, 14 days for full cure.

RECOATABILITY:

Spray application consists of one or more coats applied wet in wet within app. 60 minutes. Exact time will vary on temperature and humidity, project size and film thickness applied. Brush/ Sponge/Wipe application one coat should do.

VOC: 3% VOC in Base. Hardener VOC = 0%.

APPLICATION EQUIPMENT

HVLP gun with 1.0/1.4 nozzle at

SURFACE PREPARATION

For best results UC2K HD should be applied over properly prepared surfaces

MIXING & REDUCTION

Stir Base very thoroughly using an electric mixer (start slowly, then increase up to 300 rpm). Add Hardener and mix both components very thoroughly (including sides and bottom of the container). Mix for at least of 3 minutes until a homogeneous mixture is achieved. During mixing and handling always wear protective goggles, suitable gloves and other protective clothing. Mixing ratio = Base:Hardener, 2,5:1. By weight.

The lacquer is to be reduced by adding up to 100% Isopropyl alcohol 99+% pure depending on application.

APPLICATION INSTRUCTIONS

The method of application has a major effect on achieving uniform thickness and appearance. Spray application will give the best results.

The indicated dry film thickness is easily achieved by airless spray and by brush. Adding the suited solvents reduces the sag resistance and the dry film thickness. In case of application by sponge or brush, additional applications may become necessary to achieve the required coating thickness, depending on the type of construction, color shade etc. Prior to major coating operations a test application on site may be useful to ensure the selected application method will provide the requested results.

BY BRUSH AND SPONGE:

Can be applied undiluted.

CONVENTIONAL HIGH PRESSURE SPRAYING:

Nozzle size 1.3 - 2.0 mm; pressure 3 - 5 bar;

Always use oil and water separator.

AIRLESS-SPRAYING:

With a spray pressure of min. 180 bar;

Nozzle size 0.28 - 0.43 mm (0.011 - 0.017 inch); spray angle 40° - 80°.

WARNING

Do not apply paint materials to surfaces less than 5° Celsius, or to surfaces warmer than 40° Celsius, nor in direct sun light. Ambient temperatures should be a minimum 5°C and maximum 45°C.