

ACS PU PRIMER[®] | Polyurethane Based, One Component, Primer



■ Description

ACS PU PRIMER[®] is a one-component no-solvent low viscosity airborne moisture-curing polyurethane resin based liquid impregnated primer material.

■ Place of usage

- Prior to epoxy and polyurethane flooring systems, impregnation primer material on concrete and cementitious surfaces.
- It is used as primer material of polyurethane waterproofing and polyurethane joint filling products on non-absorbent surfaces.
- For polyurethane joint fillers the following absorbent surfaces are used as primer material:
- Concrete.

- Coatings.
- Wood.
- Cement plaster.
- Ceramic tiles.

■ Advantages

- Excellent adherence to non-absorbent surfaces.
- Simple application (roller or airless spray)
- Excellent anchoring to the surface of absorbing surfaces.
- Quick curing.
- Provides enough elasticity to follow surface movements.
- Resistance to puddles and freezing.
- Chemical resistance to the chemical, moisture, oil, gress and other stain releasers.

TECHNICAL CHARACTERISTICS

ACS PU PRIMER [®]	Polyurethane resin
Color	Yellowish
Density	0,98 ± 0,05 kg/lit (A+B / 20°C)
Solid Volume	%51 (A+B)
Applying Time (+10°C)	60 Minutes
Applying Time (+30°C)	50 Minutes
Recoating	2-4 Hours -20°C
Drying Time	1/ 2 Days / 20°C
Fully Cured	4-5 Days / 20°C
Adhesion to Concrete	>2,5 N/mm ²
Ambient Temperature	+8°C -+ 35°C
Surface Temperature	+8°C -+ 35°C

NOTE: The above values are given at + 23 °C and 50% relative humidity environment. High temperatures shorten the time, low temperatures prolong the time.

APPLICATION PROCEDURE / SURFACE PREPARATION

The compressive strength of the concrete floors to be applied should be 25 N / mm² and shear test and pull-off tests' results should be minimum 1.5 N / mm². The concrete must be at least 28 days, the moisture percentage of the concrete surface onto

which substance will be applied should be 4-6%. All loose particles should be cleaned from cement grout and surface should be defatted. Damaged surfaces should be repaired beforehand. Residues, rough and shiny screed should be cleaned with tools such as sand blaster, surfacer and the surface should be roughened and wiped. The entire surface must be cleaned from dust with an industrial vacuum cleaner.

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MIXING

ACS PU PRIMER[®] is ready to use, doesn't thin down.

MIXING RATIOS

ACS PU PRIMER [®]	Component A
Mixture Amount	16 kg
Mixture Density	0,98 kg/liter

APPLICATION METHOD

The priming surface must be completely covered using ACS PU PRIMER[®] with a roller or brush. On very absorbent surfaces, ACS PU PRIMER[®] should be applied two times. After approximately 2-3 hours and while the primer is still a bit tacky apply the polyurethane coating or the polyurethane joint-sealant.

CONSUMPTION

ACS PU PRIMER[®] as impregnation and transition primer: 150-250 gr/m²

TIPS TO NOTICE

- The relative humidity of air is highest % 80, Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +8°C or above +35°C.
- Surface temperature should be 3°C above the then dew point. (Please call our company for the Ambient temperature-Ambient Moisture-Dew Point table.)The materials to be used at the appropriate temperatures should be brought and stored in the application area 1-2 days prior to the application and enabled to adjust the ambient conditions.
- In extremely cold conditions, heaters should be used to increase the ambient and the workability of the product, the packages should be preconditioned to +20°C - +25°C to become ready to use. Epoxy and polyurethane based floor coatings should be applied by specialists.
- The reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases the

pot life, coating interval and the working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and the above mentioned times decrease accordingly. After completion of the coating, the coating should not fall below + 8 °C at an air temperature of at least 36-48 hours, and no direct water contact and snow is allowed on the newly applied product. Within this period, a contact with water may cause a surface carbonation and/or tackiness both of which may make the coating lose its characteristics.

CLEANING OF TOOLS

Tools and equipment used after the application can be cleaned with cellulosic thinner or water.

PACKAGING

Component A: 16 kg and 5 kg metal pails.

STORAGE

In unopened original package, it should be stored in a cool and dry environment at + 10 °C + 25 °C temperature protected from the freezing. In short-term storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

SHELF LIFE

The shelf life is 6 months from the date of production under suitable storage conditions.

SAFETY

During the application, work clothes, protective gloves, goggles and masks should be used in accordance with the Occupational Health and Safety Rules. Due to the irritating effects of uncured materials, the components should not be allowed to come into contact with the skin and the eye. In case of contact, immediately wash with plenty of water and soap. If swallowed, seek medical advice immediately. Food and beverages should not be left at the application areas. Keep out of reach of children.

□ Responsibility

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is only responsible for the quality of the product. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones (06/2019)