

ACS EPOXY PRIMER-MAX®

Epoxy Resin Based, Two Component, Multipurpose Primer for Moist and Wet Surfaces



Description

ACS EPOXY PRIMER MAX® is an epoxy resin-based two-component solvent-free low viscosity transparent primer cured on wet concrete.

Place of usage

- As primer layer for polyurethane materials in wet weather conditions.
- Insulation systems are used as primer and resin system for lamination.
- As primer layer before polyurea application.
- Prior to epoxy and polyurethane flooring systems, as primer material on concrete and cementitious surfaces.
- As concrete primer to wet the concrete surface and provide a good adhesion bridge before top-coats of epoxy mortar,

epoxy self-leveling screed, epoxy laminate or epoxy/polyurethane poksi mortar, epoksi self levelling screed.

- For repairing big cracks and forming chamfering by mixing with silica sand or different additives.

Advantages

- Applicable on damp concrete (wet concrete), cured even in contact with water after application.
- High adhesion and wetting ability, suitable for use on bright mineral surfaces including ceramics.
- Isolation systems with flexible hard structure suitable for use as primer and lamination resin.
- Low viscosity.
- Endurance against heavy loads.
- Solvent free.

TECHNICAL CHARACTERISTICS

ACS EPOXY PRIMER MAX® Component A	Epoxy resin
ACS EPOXY PRIMER MAX® Component B	Epoxy hardener
Color	Transparent
Density	1,08 ± 0,05 kg/lt (A+B / 20 °C)
Solid Volume	%100 (A+B)
Mixing Ratio	10 : 4 (A:B - By volume)
Applying Time (+10°C)	90 Minutes
Applying Time (+30°C)	25 Minutes
Recoating	12 Hour -20 °C
Waiting Between Coats (Max.)	1-2 Days
Drying Time	1 Days / 20 °C
Fully Cured	7 Days / 20 °C
Water Vapor Resistance Coefficient (μ value)	20.000
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 / PREPARATION OF SUBSTRATE

ACS EPOXY PRIMER MAX® is the primer material for epoxy polyurethane coating systems. 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 per-

centage 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 EPOXY PRIMER MAX® is supplied as ready to use kits in the exact ratio. Before mixing precondition both A and B parts to the temperature of +15 - +25°C. **ACS EPOXY PRIMER MAX®** Component A should be thoroughly mixed in the epoxy / polyurethane resin mixer for 3 - 4 minutes at the speed of 300 - 400 rpm with a mechanical stirrer. No air-entrainment should occur. Then all of component B must be emptied into component A. Make sure that there is no component B left. Components A and B should be mixed until become homogenous (at least 3 min).

MIXING RATIOS

ACS EPOXY PRIMER MAX®	Component A	Component B
Mixture Amount	10 kg	4,0 kg
Mixture Density	1,08 kg/liter	

APPLICATION METHOD

As Primer and Bonding Bridge: Apply it by brush, roller or squeegee. Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats.

As Leveling Mortar: Apply it by trowel or squeegee until the required thickness.

As Undercoat: The material is poured over the surface and spread with help of a toothed trowel and rolled immediately in two directions with spiked roller. If necessary, the surface is broadcast several times with quartz sand about 15 to 20 minutes later until no wetness is seen on the surface.

CONSUMPTION

The following values are suggestive and may include additional material consumption depending on surface quality, leveling differences and the structure of the surface.

As impregnation primer: 200-500 gr/m² (Depending on the concrete surface)

As bonding bridge: 200-400 gr/m²

Level Stabilization Mortar: 1,5 / 1,7 kg/m²/mm Applied by mixing 1 unit of **ACS EPOXY PRIMER MAX®**, 0.5 mm) and 1 unit of quartz sand (0.1 to 0.3 mm).

As undercoat: 1.9 kg/m²/mm Applied by mixing 1 unit of **ACS EPOXY PRIMER MAX®** (0.5 mm) and 1 unit of quartz sand (0,1 to 0,3 mm, Optionally, the surface, while it is still wet, is broadcast with 0,4 to 0.7 mm of quartz sand by a consumption rate of 4 kg/m² approximately.

As Thick Floor Mortar: 2.0 kg/m²/mm Applied by mixing 1 unit of **ACS EPOXY PRIMER MAX®** is mixed with 8 units of quartz sand which is mixed as mentioned below.

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 +10°C or above +35°C.
- Surface temperature should be 3°C above the dew point. (Please call our company for the Ambient temperature-Ambient Moisture-Dew Point table.)

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- 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

Used tools and equipment should be cleaned with cellulosic thinner after application. Once cured **ACS EPOXY PRIMER MAX®** can only be removed by mechanical means.

PACKAGING

Component A : 10 kg pail Component B : 4,0 kg gallon

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 12 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)