

PRODUCT DESCRIPTION

The CTech-LLC® Wet Epoxy Primer (WEPTM200) is a setting, damp-tolerant epoxy resin system intended for priming the surface specifically for use in wet or damp substrates. WEPTM200 is a clear, low viscosity, 100% solids formulation with excellent flow, good application and adhesion properties. The low viscosity wets the surface rapidly and penetrates minor cracks and surface imperfections. Primer is an easy to use 5:1 volumetric mix, and cures quickly with low odor. WEPTM200 can be used in different fields like strengthening and retrofitting of structural members.

Advantages

- Very low viscosity
- Excellent adhesion to poorly prepared substrates and a wide range of substrates.
- Good humidity and corrosion resistance
- Improves substrate chemical resistance
- Fast cure response
- Epoxy primer penetrates deeply to eliminate concrete dusting, providing for easy cleanup and minimum maintenance.
- WEPTM200 will effectively protect against the intrusion of destructive salts, oils, solvents, and gasoline.

USES

WEPTM200 use in moist surface to interfere with the normal adhesion of epoxy materials to bondable substrates.

This material is used as a primer under the carbon wrap systems and laminates.

WEPTM200 is a top-grade anti-corrosive primer with an excellent balance of properties.

Epoxy primer can be used in buildings, Pump bases, Rotating equipment, and precast concrete, under tiles and other structures and elements.

SHELF LIFE

Wet epoxy primer (WEPTM200) can be stored for 2 years in unopened packaging.

STORAGE CONDITIONS

WEPTM200 must be stored at 5°-35°C and cool place but do not allow to freeze. Temporary storage should not be in areas of high temperatures, the lids of both components should be kept tightly sealed.

MIXING

Epoxy primer compounds are usually supplied in two different containers. Before pouring the contents of component B into contents of component A, each part should be stirred separately to avoid deposit in container.

Then part A and B should be mixed together depending on the required quantity. Process of mixing should take 2-3 minutes with a low speed mixer. Clean mixing tools with a proper towel to reuse them.

LIMITATIONS

Proper temperature for using WEPTM200 is between 5° C to 35° C. for applying they must use adequate ventilation. They should not be used in cold and humid weather.

Do not apply if conditions will not permit complete cure before rain, dew, or freezing temperatures occur.

EPOXY COMPONENT PROPERTIES

Net Weight	Component A = 20 kg Component B = 5 kg
Color	Component A is clear Component B is amber
Final Consistency	Moderately thin liquid form Suitable for brush or roller application
Pot Life	1-3 hours at 16° - 27° C
Density at 20 °C	Component A = 1.13 kg/L Component B = 0.99 kg/L Mixed Product = 1.07 kg/L

EPOXY MATERIAL PROPERTIES

PROPERTY	ASTM METHOD	TYPICAL TEST VALUE*
T _g	E-1356	67° C
Tensile Strength ¹	D-638 Type 1	54.0 MPa
Tensile Modulus	D-638 Type 1	2.11 GPa
Elongation Percent	D-638 Type 1	3.4%
Flexural Strength	D-790	104.6 MPa
Flexural Modulus	D-790	53 GPa

Curing Schedule 72 hours post cure at 60° C.

HOW TO USE

SURFACE PREPARATION

Substrate preparation can effect on the quality of the Epoxy primer systems in retrofitting applications. All the surfaces must be cleaned from dirt, grime, dust, curing compounds, oils, grease, waxes and all the other contaminated materials which may cause voids behind systems. An industrial vacuum cleaner must be used to remove dust and dirt. All the surfaces need grinding, Sandblasting, shot blasting, pressure wash or other common mechanical methods to reach an even concrete substrate. in case that use water for preparing, it should be dried for 24 hours.

Remember that concrete surfaces must be fully dried or cured.

APPLICATION

Surface of all the contaminated elements must be cleaned thoroughly. Mix part A and B together with a low speed mixer. It can be applied with a brush, roller or trowel. Use care to apply an even coat over the entire surface to help prevent sagging.

Using a roller can help to eliminate air bubbles in the primer and substrate, it can also ensure that there is a good bonding between them. Coverage rate will vary depending upon surface porosity. One coat is usually sufficient for sealing substrates when epoxy primer is used as a primer. and in case of using as sealer/finish, two coats are required to achieve a uniform sheen. Two coats may also be required when sealing lightweight concrete or other highly porous surfaces.

CAUTION!

All components of epoxy primer may cause skin and eye irritation and sensitization. Use of chemical resistant gloves and safety goggles is recommended.

Use adequate ventilation and avoid breathing vapors and dust. Get medical attention if you are breathing with difficulty.

Remove contaminated clothing.

SAFETY PRECAUTIONS

- Avoid eye contact.
- Do not allow primer contact with skin.
- Wear rubber boots and protective suits.
- Do not eat, drink or smoke when using the products.
- Use under well ventilated conditions and sufficient air flow.

If any symptoms happened, go to open air and get medical attention.

FIRST AID

If eye contact happened, Flush eyes with large amounts of water and obtain medical attention.

In case of skin contact, wash your skin with soap and water and get medical attention if irritation persists.

If there is cough or difficulty in breathing, go to open air and get medical attention if it persists.

WARANTY

CTech-LLC® warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within one month of the date of purchase. CTech-LLC® shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory. The Buyer, by accepting the products described herein,

agrees to be responsible for thoroughly testing any application to determine its suitability before utilizing.