

PENTENS E-501LN

Tank Lining Epoxy Coating

Product Data Sheet

Description

PENTENS E-501LN Tank Lining Epoxy is a 100% solid, modified epoxy coating designed for high performance waterproofing, chemical resistance and traffic compatibility under a wide range of application and service conditions.

PENTENS E-501LN features odorless application, low VOC content and low viscosity to concrete, steel, aluminum, ceramic tile*, plywood, natural stone, glass*, vinyl tile and many other substrates. (*Note: Some glass surfaces may require use of adhesion-promoting additives.) A wide range of colors is available.

Uses

Common uses for PENTENS E-501LN include:

- Tank lining
- Industrial flooring underlayment
- Mechanical room flooring non-slip surfacing

Advantages

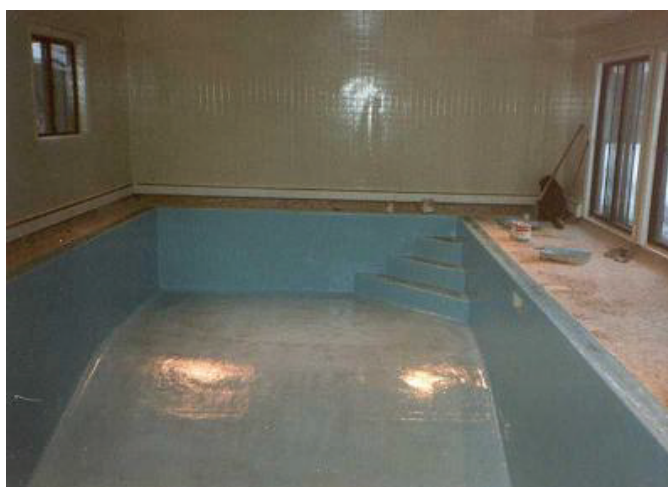
- Non-toxic.
- Odorless.
- High adhesive strength.
- Low viscosity.
- Good penetration.
- High mechanical strength.
- Excellent chemical resistance.
- Short waiting time.

Technical & Physical Data

Form	Liquid
Viscosity @ 25°C	1110 cps (resin) 385 cps (hardener)
Tensile Strength	250 kgf/cm ²
Elongation at Break	9 %
Adhesive Strength	64 kgf/cm ²
Compressive Strength	640 kgf/cm ²
Hardness (Shore D)	68
Pot Life (15kg set at 30°C)	15 minutes
Consumption	As primer : 0.2kg/m ² Saturating coat: PENTENS E-502@ 0.7kg/m ² (Depends on the thickness of the chopped strand fiberglass mat). Top coat: 0.3~0.4kg/m ²
Curing Time	~ Initial curing after 6 hours ~ Fully cured after 7 days
Shelf Life	1 year when unopened and undamaged
Storage Condition	Store in a dry, cool place
Packaging	A component: 12.5kg /pail B component: 5kg /pail

Important Notes

1. Minimum ambient and substrate temperature is 10°C.
2. Apply only to clean surfaces which are free from surface water and leakages.



Instruction for Use

Surface Preparation

Surfaces to be coated must be clean and dry, free from grease, oil, dirt and other contaminants. Old lining must be completely removed. If product is used on a smooth surface, a test application should be performed to ensure adhesion and compatibility. It is recommended that steel surface should be sandblasted. Concrete should be neutralized or acid-etched and washed thoroughly. Level off uneven surfaces using PENTENS EPTM epoxy putty & filler.

Thinning & Mixing

PENTENS E-501LN is supplied as a low viscosity, two-component, 100% solid coating. For majority of the applications, no thinning is required. Slight addition of solvent may improve the "bite" on existing coating in certain cases. Any thinning should be limited to 5-10% which is usually sufficient. Use only compatible solvents, such as PENTENS SO1.

Mix resin to hardener and mix consistently. Product is also available in pre-measured units, eliminating the need for field measuring of components. Mix thoroughly for at least two minutes, scraping the container bottom and sides to ensure complete mixing. There is no induction or waiting time required after mixing or before the application.

The exothermic nature of epoxy setting reactions may cause rapid temperature rise when the mixture is left amassed in a bucket, resulting in high temperatures and loss of utility of the product.

To maximise handling and working time, pour the mixture into shallow pans or dump and squeegee tile mixture out onto the surface to be coated within a few minutes of mixing.

Application

Apply a primer coat by brush, roller, squeegee or plural component spray. Immediately lay out the fiberglass mat on the wet primer coat. Allow 2 to 3 hours of drying. Apply saturating coats and allow for initial curing time of 6 to 8 hours. Grind the surface into smooth finish before applying topcoats. Clean the tools and equipment immediately after use with PENTENS SO1 or Xylene.

NOTE: Solvents are hazardous materials. Read and observe guidelines on their manufacturers' Material Safety Data Sheets. Do not subject to immersion for at least 5 days after application as discoloration may result.

Curing & Cleaning

The applied epoxy tank lining must be allowed to cure for 72 hours before using the tank for storage of potable water. 7 days of curing time is necessary to attain chemical resistance. Wash the cured lining using detergent and rinse thoroughly.

Safety

PENTENS E-501LN should not come into contact with skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of its vapors when using the products. The smell may cause irritation to people that sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection. If working in confined area, suitable respiratory protective equipment must be used. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting. PENTENS E-501LN is flammable. Keep away from sources of ignition. In the event of fire, extinguish with CO2 or foam. Do not use a water jet.