ZNR™ COALTAR EPOXY

Coal Tar Heavy Industry Paint

Product Description	Insulation and coating material obtained through combination of epoxy resin and coal tar. A flexible product that is highly resistant against aggressive effects of soil and resistant against sulfate effects of soil.
Product Number	116
Areas of Application	• All concrete and steel surfaces under soil (pipelines, fuel tanks, manholes, base protection concretes of fuel tanks, foundation piles, etc.), • Surfaces of concrete or steel constructions under water or at wave spill areas (pier posts and spillways, dam and regulator shutters, barges and hoys, underwater parts of vessels, bilge and ballast tanks), • Harbors and shipyards, internal surfaces of reinforced concrete / steel pipes that carry chemical waste water and sea water, penstock pipes, and treatment facilities.
Characteristics /Advantages	• Anti-corrosive for protecting particularly underwater and under-soil steel surfaces. • Resistant against water and sea water, diluted acids and alkalis, mineral oils and detergents. • Creates a rigid film layer; resistant against impact and friction. • Provides highly economic use.

Mechanical / Physical Properties

Color	Black
Density	~1.35 gr/cm³ (23 °C)
Solid Matter (by weight)	(%) : 73 ± 2
Viscosity	85-110 KU (1250 – 2010 mPa.s) (23 °C)
Working Temperature	+10 / +35°C
Mixture life	5 -8 hours at 20°C (variable, depending on ambient temperature)
Waiting time between laye	Min 24 hours - max 48 hours at 23°C
Opening for Traffic	24 hours
Full-Dry Time (20°C - Max. 85% relative	First Dry Time: 4-6 hours Full-Dry Time: 24 hours Full hardening time: 9-10 days (Drying time may vary depending on film thickness)
Consumption	Approximately 1.4 kg/m² for 1 mm of thickness. (variable, depending on roughness and permeability of the surface)
Thinning ratio	The product can be thinned depending on the application method with **Thinner** with a ratio of 5-10% by weight.
Application tools	Roller, brush or mechanical pulverizator

Surface Quality	Concrete surfaces must be solid and have adequate compressive strength (minimum 25N/mm²) and tensile strength must be minimum 1.5 N/mm². Clean foreign materials such as dirt, oil, grease, coating, surface curing agents, etc. from the concrete, alum, plastered and metal surfaces. The surface should be clean and dry.
Surface Preparation	The application surface should be cleaned from loose parts, grease and other chemicals and should be crack-free, dry and clean.
Application Conditions and Limitations	Surface moisture content: moisture content <4 % unit by weight. Relative air humidity should be maximum 80%. Surface Temperature — Minimum +10°C, Maximum + 30°C Ambient Temperature — Minimum +10°C, Maximum + 30°C Material Temperature — Minimum +10°C, Maximum + 30°C
Mixing Tools / Mixture	Stir component A at first. Pour Component B (small can) hardener into Component A (large can) and mix all for about three minutes with a suitable mixer until homogeneous mixture is achieved. Under normal conditions, it is not necessary and not preferred to thin ZNR **COALTAR EPOXY EP**. However, if weather conditions are extremely harsh, **THINNER** can be added with a percentage of 10% or less. Add solvent after mixing main material with hardener and mix thoroughly.

Application Method / Equipment	ZNR **COALTAR EPOXY** can also be applied using a brush or roller. Pay great attention to achieve a uniform thickness. A good ventilation is a must for painting applications for tanks and close areas.
Package	A + B Components: Component A 17.4 kg - Component B 2.6 kg ready to use sets
Shelf Life	Shelf life is approximately 1 year in the original close package. Products should be stacked in a (10-35°C) and dry place.
Considerations	● Wait for minimum 6-8 hours for other layers. It is recommended to apply two layers minimum. ● Make sure that paint film is not exposed to any chemical or mechanical factor before curing of ZNR **COALTAR EPOXY**. ● Never pour the paint into sewage or water channels. ● Do not use in drinking water tanks.
Danger and Security Alerts	● **S2**: Keep the product out of reach of children. ● **S24/25:** Avoid eye and skin contact. ● S36/37: Use protective gloves and goggles when working. ● **R10:** Flammable. ● **R20/21/22:** Harmful to health if inhaled, swallowed or in case of contact with skin. May cause allergy when inhaled / in case of contact with skin.
General Matters	Abovementioned product data and descriptions are prepared for guiding purposes as a result of our experiences and diligent studies. We, individually, can not control or affect the variety of the related materials and various construction and working conditions. Warranty is limited to only quality of the purchased material for the applications that are not under our control. No warranty is committed for application, but only for product manufacturing. This technical flyer overrides former flyers. Quality of the work may vary depending on how professionally the product is used. In case of hesitation, please perform a small test or ask for technical help.
Disposal	Empty packings can be disposed to collection bins according to regional/local regulations or recycling rules. Dispose used waste materials as construction waste materials after drying and hardening. It is dangerous to dispose by burning the product remnants.
Safety Information	Keep the products out of reach of children. Keep the lids of the products closed. It is recommended to use gloves and goggles during application. In case of contact with skin, wash immediately with soap. In case of contact with eyes, immediately consult a doctor. For more information, please refer to the material safety data sheet.