

Chelfix EP 6570

Solvent Based, Coal Tar Epoxy Coating for Steel and Concrete

Product Description

Chelfix EP 6570 is a two component, epoxy polyamide cured, epoxy coating which's coal tar based with highly aggressive chemical, soil, sulphate and water resistant.

Areas of Usage

- All concrete and steel surfaces
- Under soil coating
- Main structures, concrete foundations, manholes covers, lining of tanks, pipes and ducting.
- Sewage treatment plants.
- Steel pipes that carry chemical waste water and sea water, penstock pipes, and treatment facilities.

Features and Benefits

- High durability in corrosivity
- Very good corrosion protection,
- Good chemical and mechanical resistance
- Easy application
- Liquid proof
- Good abrasion resistance
- After curing Chelfix bond 657 is tough, hard, skid resistant, resistant to abrasion, mechanical and chemical exposure
- Excellent adhesion to common surfaces like steel, concrete, stone, artificial stone, wood, etc.

Chemical Resistance

Amongst others resistant to water, sodium chloride solutions 10%, certain solvents, petrol, heating oils, engine oils, brake fluid and detergents. In instances of permanent chemical exposure slight colour changes may occur.

Distilled water
Sea water / sewage water
Effluent
Barnacle and organic growth
Sewage
Exhaust & sewage gases
Marine Bacteria
Diluted organic and inorganic acids and alkalis
Salt solutions (Potassium, Sodium)

Substrate and Ambient Condition:
+10°C min. / +30°C max Temperature
< 4% pbw moisture content
Relative Air Humidity 80% r.h. max.
Be aware of condensation!

Application Instruction

Substrate Quality: Concrete substrates must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm². The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt, apply a test area first.

Substrate Preparation: Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve a profiled open textured surface. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to substrate, filling of blowholes/voids and surface levelling can be carried out using appropriate products from the Repair materials. The concrete or screed substrate has to be primed or levelled up in order to achieve an even surface. High spots can be removed by e.g. grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

Mixing: Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimize air entrainment.

Mixing Tools: Chelfix EP 6570; must be mechanically mixed using an electric power stirrer (300 - 400 rpm) or other suitable equipment. For the preparation of mortars use a forced action mixer of rotating pan, paddle or trough type. Free fall mixers should not be used.

Application Method and Tools: Prior to application, confirm substrate moisture content, relative humidity and dew point.

Cleaning of Tools: Clean all tools and application equipment with Tiner immediately after use. Hardened/cured material can only be mechanically removed

Pot life: +20°C ~ 4-6 hours (depending on ambient temperature)

Storage and Shelf Life: Minimum 12 months from date of production if stored in original unopened containers.

Technical Data

Type	Solvent Based Epoxy Resin and Hardener
Colours	Black
Density	1,40±0,10 (g / ml) (EN ISO 2811-1)
Viscosity (23 ° C)	85-110 KU (1000 – 3000 mPa.s)
Solids by Weight	80±5 %
Touch Dry Time	4-6 Hours
Full Dry Time	7 Days
Consumption	1,4 kg / m ² (1 mm thickness)
Packaging	20 kg Set
Thinning Ratio	Can be thinned depending of the application with Tiner K ratio of % 5 -10