

## EUXIT 60

**Description** A solvent free, pigmented, two component preparation of liquid epoxy resin with formulated amine hardener .

### Fields of application

**EUXIT 60** is a coating material for cement bound surfaces such as concrete, plaster, asbestos cement, and also for iron and steel. Because & wood it has a very low viscosity, it can be mixed with additives, for example, for flow mortar and filler compounds. The main fields of application are the floor and wall surfaces which are subjected to considerable chemical and mechanical loads, as in the chemical and textile industries in container and silo construction, in the sewage sector, battery plants, etc.

### Product characteristics

When properly hardened **EUXIT 60** is very hard, has a good resistance to abrasion with good elasticity. It is weather-proof, water, waste and sea waterproof. Euxit 60 is significant having excellent resistance against organic and inorganic acids, alkalis, mineral oils and many solvents.

**EUXIT 60** is resistant to constant temperature and temperature variations From - 30oC to + 100oC dry heat and up to + 60oC wet heat. The mixture preparation (mortars) are resistant up to + 120o C dry heat and up to + 80oC heat. For short periods the mixtures can stand 20 - 30 % higher temperatures. Floor coatings can be cleaned by steam jet.

### Technical data

<b>Mix ratio (by weight)</b>	4:1
<b>Mix ratio (by volume)</b>	5:2
<b>Pot life at 10 oC (hours)</b>	1 ½
<b>Pot life at 20 oC (hours)</b>	¾
<b>Pot life at 30 oC (hours)</b>	¼
<b>Minimum hardening temperature oC</b>	8
<b>Bone dry at 20 oC (hours)</b>	2 ½
<b>Walkable at 20 oC (hours)</b>	24
<b>Thorough hardened at 20 oC (days)</b>	7
<b>Re-workable at 20 oC (hours)</b>	5-24
<b>Volume shrinkage (%)</b>	2
<b>Linear shrinkage (%)</b>	0.2
<b>Impact hardness konig (sec)</b>	140-160
<b>Pencil hardness</b>	2-3 H
<b>Erichsen indentation (mm)</b>	1
<b>Abrasion DIN 52108 (cm<sup>3</sup>/50 cm<sup>2</sup>)</b>	4

<b>Adhesion to concrete after storage at temperature changes</b>	Concrete-fracture
<b>Compression strength N/mm<sup>2</sup></b>	80
<b>Bending property N/mm<sup>2</sup></b>	34
<b>Tensile strength N/mm<sup>2</sup></b>	23
<b>E – module N/mm<sup>2</sup></b>	4000
<b>Thermal expansion °C-1</b>	60X10 <sup>-6</sup>
<b>Abrasion resistance DIN 52108</b>	4
<b>Sp.G.</b>	1.4 gm/cm <sup>3</sup>
<b>Solids by volume</b>	98% approx.
<b>Dry film paint thickness</b>	250 micron
<b>Wet film paint thickness</b>	250 micron
<b>Theoretical spread rate</b>	3 m <sup>2</sup> /kg for 250 M.D.F.T
<b>Complies with ASTM C 881-87-ASTM D-543</b>	

### Surface preparation

Cement bound surfaces must be dry, firm offer good traction, be free from grout, dust and dirt and additionally free of oil, grease and other impurities which can adversely affect uniform adhesion. If considered necessary, the surface should be sand blasted, flame scaled, milled or ground. Iron and steel must be free of rust and scale and should be free from oil, dust and grease and other dirt particles. The best method of preparation is to flame scale or sandblast .

### Application **Thin smooth coating :**

- Prime with **EUXIT 60** to which 10% **EUXIT 501** thinner has been added. Material consumption depending on absorbency of the surface: 200-400 g/m<sup>2</sup>.
- After applying the primer, sprinkle with fire dried quartz sand 0,1 - 0,4 mm or 0,2 - 0,7 mm  $\phi$  .  
Quantity of sprinkled sand approx. 1,5 - 2 kg/m<sup>2</sup> .
- After an interval of 1 day, apply two top coating **EUXIT 60** material consumption approx. 500 g/m<sup>2</sup> per coating .
- Time interval between the top coatings, maximum 1 day .  
Thick coating (smooth or skid free - for coating thickness of 2-4 mm  
:
- Prime with **EUXIT 60** to which 10% **EUXIT 501** special thinner has been added. Material consumption according to porosity 200-400 g/m<sup>2</sup>.
- Immediately after applying the primer, sprinkle with fire dried quartz sand 0,1 - 0,4 mm or alternatively 0,2 - 0,7 mm  $\phi$  .  
quantity of sprinkled sand - approx. 1,5 - 2 kg/m<sup>2</sup>.
- After 1 day interval, apply the paving mortar, which should comprise of :  
1 part (by volume) **EUXIT 60** .  
1 part (by volume) fire dried quartz sand 0,1-0,4 or 0,2-0,7 mm agent (Aerosil or Sylodex) .

For **horizontal surfaces** pour the material and with a spatula or squeegee distribute to the required coating thickness and for airtightness and leveling, work over with a rough or spiked roller for vertical surfaces spread the material with a smoothing tool to the required coating thickness. Material consumption 900 g pure **EUXIT 60**/m<sup>2</sup> and mm coating thickness.

-If a slip free surface is required, then immediately sprinkle flow mortar (without thickening agent) with fire dried quartz sand 0,2-0,7 or 0,7-1,2 mm  $\phi$  according to desired roughness.  
quantity of sprinkled sand - about 5 kg/m<sup>2</sup>.

-On the next day, scrape away the excess sand and apply a top coating or **EUXIT 60** to which has been added 5% **EUXIT 501** special thinner, to ensure an even thin sealing.  
material consumption approx. 400 g /m<sup>2</sup> pure **EUXIT 60** .

### **Containing procedure for iron and steel:**

-Sand blast in accordance with rust point 2.213 (optimum top surface condition peak to valley height approx. 50  $\mu$ ) .

-Apply 3 top coats of **EUXIT 60** (until completely free of porosity) .  
material consumption 300-400 g/m<sup>2</sup> per coating.interval between the coating 5-24 hours at 20°C.

-If longer interval occurs between the application of the coating, or in case old coating have to be renewed, the old surface must be thoroughly cleaned and sanded. There after a new porous free coating must be applied. It is not sufficient just to re-paint once over.

### **Inside coating of large containers**

When working in enclosed areas, inside containers or in silos, good ventilation must be provided. Warm fresh air must be pumped in and the stale air must be extracted. Whilst applying coating sufficient heating should be provided so that the walls maintain a minimum temperature of 15°C. it must be at least 5°C above the dew point, so that moisture condensation is avoided between applications of coatings. After coating and painting work has been completed, a temperature of 25-30°C of the coated walls must be maintained for at least 7 days to ensure that an optimum hardening is obtained .

Containers with high chemical loads should, in addition, be brought up to wall temperatures of 40-50oC for at least three days with the aid of infra-red heaters.

### **Container sizes and colour shades**

**EUXIT 60** is supplied in drums of kg and 1 kg .  
Resin and hardener are supplied in correct mix ratios.

#### **Colour**

102 light sky  
601 bluesky  
201 beige  
302 birk-red  
703 light green  
705 dark green  
other colours available .