

EUXIT 55

Description A solvent free , highly fluid non-pigmented . Two component preparation of liquid epoxy resin base with formulated amine hardener.

Fields of application

Due to its low viscosity , **EUXIT 55** can be mixed with a considerable amount of mineral filler (aggregate). It is therefore especially suitable as filler compound , repair mortar and synthetic resin mortar on cement bound surfaces. Because of its low viscosity and its good penetration properties

EUXIT IT 55 can be used as a surface primer under solvent free coatings .

Product characteristics

EUXIT 55 when properly hardened is resistant to alkaline solution diluted acids , saline solutions, mineral oil, and aliphatic hydrocarbons and is weather-proof and virtually non-yellowing.

Complies with ASTM D - 543 , ASTM C 881-87

EUXIT 55 is unaffected by constant temperatures and temperature variations in the range of -30oC to 20oC wet heat , **EUXIT 55** mortar is resistant to up to + 120oC dry heat and + 50oC wet heat .

Resistance to higher temperatures is possible for shorter periods .

TECHNICAL DATA

	EUXIT 55	EUXIT 55 Flow mortar 1:4	EUXIT 50 Mortar 1:9
Viscosity at 20 oC cps	400	---	---
Specific gravity at 20 oC (g/cm³)	1.06	1.8	2.04
Mix ratio (by weight)	7:3	---	---
Mix ratio (by volume)	2:1	---	---
Pot life at 10 oC (hours)	1 ½	2	2.5
Pot life at 20 oC (hours)	½	¾	1
Pot life at 30 oC (hours)	¼	1/3	½
Minimum hardening temperature oC	8	8	8
Bone dry at 20 oC (hours)	2	2 ½	3
Walkable at 20 oC (hours)	24	24	24
Thorough hardened at 20 oC (days)	7	7	7
Re-workable at 20 oC (hours)	Immediately		

	24	12-24	12-24
Volume shrinkage (%)	4	1	0.4
Linear shrinkage	0.3	0.1	0.03
Hydrolysis count DIN 53401	0	---	---
Impact hardness konig (sec)	100-200	---	---
Pencil hardness	H	---	---
Erichsen indentation (mm) abrasion	4	---	---
a)Tabor (cs 10/100u/1000g (mg)	70	---	---
b)DIN 52108 (cm3/ 50 cm2)	3	9	8
Compression (N/mm2)	30	50	70
Bending property (N/mm2)	33	30	24
E-module (N/mm2)	300	3000	9000
Tensile strength (N mm2)	24	---	---
Breaking tension (%)	30	---	---
Reversible. Compression at 7.5 N/ mm2)	2.3	---	---
Glass temperature oC	30	55	70
Adhesion to concrete after storage at temperature changes	Concrete Fracture	Concrete Fracture	Concrete Fracture
Shelf life	Up to 1 year		

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 small holes:

Filler compound for leveling small holes and contractions in horizontal and vertical concrete surfaces and smoothing over sand blasted roughness.

Filler compound to be prepared from:

1 part (by volume) **EUXIT 55** (1 liter = approx. 1 kg)

1 part (by volume) fire dried quartz sand 0,06 - 0,2 mm ϕ
(1 liter = approx. 1,5 kg)

1 part (by volume) thickening agent (Aerosil or Sylodex)

Material consumption approx. 500-600 g **EUXIT 55** and mm coating thickness per m².

Repair mortar, flow mortar :

For this purpose three parts (by volume) aggregate should be added to so that a good fluid mixture results with enough free

resin . There by a primer is not required.

Repair mortar to be prepared from :

1 part (by weight) **EUXIT 55** (1 liter = 1 kg)

1 part (by weight) fire dried quartz sand 0,06 - 0,2 mm ϕ

2 part (by weight) fire dried quartz sand 0,7 - 1,2 mm ϕ

Thoroughly mix **EUXIT 55** components A and whilst stirring, first ad the finer sand, then the coarse grained sand, and mix well.

Material consumption approx. 450 g **EUXIT 55** and mm coating thickness per m².

Sprinkle the freshly applied coating with fire dried quartz sand, granulation 0,2-0,7 or 0,7-1,2 mm ϕ , according to desired roughness.

Thereby a good skid free traction surface results.

As consequence of this sprinkling of sand, the thickness of the coating is increased by 30-50 %

Synthetic resin mortar :

Apply **EUXIT 55** as primer .

Material consumption approx. 200-300 g **EUXIT 55**/m².

For coating of 5-10 mm thickness.

1 part (by weight) **EUXIT 55**

9 part (by weight) according to application, fire dried additives of

7,5 % weight quartz powder (approx. 50 u)

37,5% weight quartz sand (0,06 - 0,2 mm)

55,0% weight quartz sand (0,7 - 1,2 mm)

Material consumption 140-200 g **EUXIT 55** and mm coating thickness, depending on proportion of additives .

For coating of 8-15 mm thickness :

1 part (by weight) **EUXIT 55** and

15 part (by weight) fire dried additives of :

1 part quartz sand (0,06-0,2 mm)

1 part quartz sand (0,2-0,7 mm)

1 part quartz sand (2,0-3,5 mm)

Material consumption approx. 150 g **EUXIT 55**/m²and mm coating thickness .To improve the non-skid properties, a fine sand may be sprinkled (granulation 0,09-0,2 mm or 0,2-0,7 mm) . Best applied with a sand blaster. If repair mortar, flow mortar or coarse mortar have to be coated over with a

pigmented preparation such as **EUXIT 60** then the freshly applied mortar must definitely be sprinkled with fire dried

quartz sand granulation 0,2-0,7 mm(to improve the intermediate adhesion).

Container sizes and Colour:

EUXIT 55 is supplied in containers of 1 kg , 10 kg .
Resin and hardener are supplied in correct mix ratios.
Colourless .