

Quickmast® ETS

Flexible solvent free joints transition strip mortar



DESCRIPTION

Quickmast ETS is a three components epoxy based mortar supplied in pre-weighed quantities ready for on site mixing and use.

Quickmast ETS is specially formulated from modified epoxy resin to produce a flexible and durable mortar with excellent adhesion to concrete, asphalt and steel surfaces.

APPLICATIONS

- › Designed for use as a transition strip between expansion joints & bridge decks, asphalt, steel and concrete substrates.
- › Industrial floor joint filler for concrete construction and control joints.
- › Quickmast ETS-F is a fast curing winter grade version from Quickmast ETS.

ADVANTAGES

- › Solvent free.
- › Hard wearing with high abrasions resistance.
- › Excellent adhesion to concrete, asphalt and steel surfaces.
- › Withstand dynamic movement.
- › Fast cure; Quickmast ETS-F.
- › No priming is required.
- › Excellent resistance to heat and oxidation.
- › Maintains its mechanical properties under sunlight and weathering conditions.

METHOD OF USE

SURFACE PREPARATION

The surface must be structurally sound, free from oil, grease and other forms of contamination. Concrete surface should be dry and suitably prepared either by scabbling or grit blasting to remove any surface laitance.

MIXING

Quickmast ETS comprises of three components, a resin base, hardener and filler which are pre-weighed to the correct proportions. Under no circumstances should part mixing be carried out.

TECHNICAL PROPERTIES

	Quickmast ETS	Quickmast ETS-F
Colour:	Black	Black
Working time:	30 - 40 min @ 25°C 15 - 25 min @ 35°C	20 - 30 min @ 25°C 40 - 50 min @ 15°C
Shore A: ASTM D2240	> 70 @ 1 day	> 80 @ 1 day
Shore D: ASTM D2240	> 60 @ 1 day	> 40 @ 1 day
Solids:	100%	100%
Mixed density:	2.0 ± 0.1 g/cm ³	2.0 ± 0.1 g/cm ³
Curing time: Initial cure/ vehicle traffic tack free time	14 hr @ 25°C 10 hr @ 35°C	6 hr @ 25°C 10 hr @ 15°C
Final cure/ chemical cure	7 days @ 25°C 3 days @ 35°C	5 days @ 25°C 7 days @ 15°C
Bond strength EN 1542 on: Concrete Asphalt Steel:	> 2 MPa concrete failure > 2 MPa Asphalt failure > 1.5 MPa	
Recommended application temperature:	15 to 40°C	8 to 30°C
Service temperature:	-20 to 70°C	-20 to 70°C
Compressive strength: BS 6319, Part 2	@ 25°C > 12 MPa @ 1 day > 20 MPa @ 7 days	@ 15°C > 10 MPa @ 1 day > 18 MPa @ 7 days
Tensile strength: (Neat resin) BS 6319, Part 7 & ASTM D638	@ 25°C > 3 MPa @ 1 day > 7 MPa @ 7 days	@ 15°C > 3 MPa @ 1 day > 8 Mpa @ 7 days
Flexural strength: BS 6319, Part 3	@ 25°C > 4 MPa @ 1 day > 12 MPa @ 7 days	@ 15°C > 3 MPa @ 1 day > 10 MPa @ 7 days

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Quickmast® ETS

Ensure that the bottom and sides are thoroughly scraped; transfer the entire contents of the HARDENER container into the RESIN container. Using a mixer attached to a slow speed electric drill, mix for approximately 2 minutes until a uniform consistency is obtained.

The resin mixture should then be transferred to a separate container or forced action mixer such as a creteangle type mixer, and the FILLER gradually added and mixed for a further 2 minutes or until the filler has thoroughly wetted out and a uniform consistency is obtained.

APPLICATION

Quickmast ETS should be applied by first tamping, followed by trowelling using steel float.

WORKING TIME

Quickmast ETS has a working time of approximately 40 minutes at 25°C. Mixed material should not be left standing for any length of time prior to application, as this will considerably reduce its working time.

WORKING CONDITIONS

Quickmast ETS should not be applied at temperatures below 5°C.

CURING

Quickmast ETS should be allowed to cure for 14 hours at 25°C and 10 hours @ 35°C before being subjected to vehicle traffic. At 35°C, full mechanical and chemical properties are achieved after 3 days.

However, Quickmast ETS-F needs 6 hours @ 25°C and 10 hours @ 15°C before being subjected to vehicle traffic.

CLEANING

Clean uncured material with DCP solvent. Cured material can only be removed mechanically.

PACKAGING

Quickmast ETS is available in 20 kg pack size comprising resin base, hardener and filler component.

YIELD

10 litre per 20 kg Pack.

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TECHNICAL PROPERTIES

Elongation at break: (Neat resin) ASTM D638	@ 25°C	@ 15°C
	> 55% @ 7 days	> 30% @ 7 days
Water absorption: ASTM D570	< 1.2%	< 1.2%
VOC: ASTM D2369	< 60 g/ltr	

STORAGE

Protect from frost and store under dry warehouse conditions at temperatures between 5°C and 40°C.

SHELF LIFE

Quickmast ETS has a shelf life of 24 months from date of manufacture if stored in unopened, undamaged, sealed containers and stored under good conditions.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

CAUTIONS

HEALTH AND SAFETY

Consult the appropriate Material Safety Data Sheet prior to using Quickmast ETS.

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