

abecote® SF 356

EPOXY TAR COATING AND BINDER FOR EPOXY TAR PAVING/MORTAR

DESCRIPTION

 $\textbf{abecote}^{\$}$ SF 356 is a two-component, solvent-free aminecured epoxy tar.

USES

High-build epoxy tar coating for chemical resistance – protection of asphalt road surfaces against oil attack. When mixed with aggregate can be used as a paving compound.

ADVANTAGES

- High chemical-resistant coating for concrete and steel
- High-build for longer life
- Ideal protection for asphalt surfaces
- Versatile used as binder for epoxy tar mortar
- Good wear resistance
- · Easily applied
- Economical

COLOUR

Black finish.

PROPERTIES OF WET MATERIAL		
Mixing ratio	1 base: 1 activator by volume	
Density (typical)	1,15 g/cm ³	
Colour	Base: Clear	
	Activator: Black	
	Mixed: Black	
Finish	Gloss	
Flash point	+ 120 °C	
Consistency	Viscous liquid	

PROPERTIES DURING APPLICATION		
Pot life	20 min/5 litre @ 25 °C	
Volume solids	100% Up to 5% tar volatiles present	
Recommended av dft per coat	Vertical 150µm Horizontal unlimited	
Theoretical cover for aboce dft	6 m²/litre on smooth vertical surface	
Practical cover for estimating purposes	5 m²/litre depending on surface texture	
Drying time @ 25 °C	Touch dry – 8 hrs Hard dry – 24 hrs Full cure – 7 days	
Overcoating time @ 25 °C	Minimum – 8 hrs Maximum – 24 hrs Watch for presence of bloom	
Application temperature range	10 °C to 40 °C	
Do NOT apply	If humidity is in excess of 85%	
Do NOT apply	If surface is less than 2 °C above dew point	
Fire resistance of wet film	Flammable	
Equipment clean-up	abe® super brush cleaner	
Flexibility	Passes 8 mm mandrel	

PROPERTIES OF DRY FILM	
Maximum service temperature	Dry 90 °C Immersion 60 °C
Hardness	+2 000 gm (Sheen scratch test)
Impact resistance	Passes 3,35 joules
Compressive strength when mixed with 3 vols of clean silica sand	+ 50 Mpa



PROPERTIES DURING APPLICATION	
Salt spray resistance	Passes 1 000 hrs
Weather resistance	Will chalk on weathering exposure
Toxicity	Inert, but do NOT use with foodstuff or drinking water
Water tainting	Will taint potable water
Chemical Resistance	The fully cured coating is resistant to:
Distilled water	 Distilled water Saline water Sewage sludge Effluent water Aliphatic solvents, vegetable and mineral oils and fuels 35% sulphuric, 37% hydrochloric, 5% nitric, 10% acetic alkalis, 40% sodium hydroxide, 10% ammonium hydroxide

SURFACE PREPARATION

Any surface must be clean, mechanically sound and dry.

For porous surfaces, electronic moisture content tests must be conducted prior to application of the priming system. Maximum moisture 4-5% max. (e.g. Protimeter Survey Master or equivalent)

or

Dynamic Calcium Chloride moisture "weight gain" over 24 hrs

a practical overnight "plastic sheet test" is also advisable approx. 1m² masked down on surface).

Steel – Surfaces must be free of all rust and millscale. They should be abrasive blasted to a minimum standard of Sa 2,5 of Swedish Code of Practice SIS 055900. If immersion service is contemplated then a standard of Sa 3 should be attained.

Anchor pattern must never exceed 100 μm and preferably should be in the 50 – 75 μm range.

Galvanised Steel – Galvanised steel must be completely free of any trace of greasy matter and should be scrubbed with abrasive pad or proprietary abrasive cleaner until completely 'nongreasy'.

The cleaned surface must be well washed with clean water and allowed to dry.

Concrete – Concrete must be free of laitance, curing membranes and shutter release oil. All blow-holes, omegas and other similar defects must be opened and the best method of preparation is a light abrasive blast. If a smooth surface is desired, any major surface blemishes should be patched and smoothed with **epidermix**® **201**, with overcoating following within 48 hours.

Timber – Timber must be free of any oily layers and should be reasonably smooth.

Asphalt – Surfaces to be new and free of contamination. Existing asphalt surfaces must be well scrubbed with **abe® super brush cleaner** and then washed with clean water to remove all residues. The asphalt must be completely dry before coating and on no account must diluted **abecote® SF 356** be used.

All debris of preparation must be removed before any coating

BONDING/PRIMING

Steel must be primed with abecote® 384.

Galvanised steel and zinc coatings - abecote® SF 356 must never

be applied directly to these surfaces – use **abecote® 386** as a barrier coat. Concrete, masonry and timber must be primed with **abecote® SF 356** diluted 1:1 with **abe® thinners no. 3**. This coat must be allowed to dry before overcoating proceeds. Fresh concrete must be primed with **abecote® 337** and cured for 72 hours before overcoating. Asphalt must be primed with undiluted **abecote® SF 356**.

MIXING

abecote® SF 356 coating

Stir the contents of each container very well. Add the activator to base and stir together for at least 5 minutes using a flat paddle. If only part of a kit is to be used, add one volume activator to one volume base. Measuring must be accurate and separate stirrers and containers used for proportioning each component. abecote® SF 356 is designed as a solvent-free material. If it is being used on concrete, timber or masonry the first coat should be diluted with abe® thinners no. 3. Up to 50% may be added, producing a primer of 50% volume solids. This should be applied at about 6 m²/litre.

abecote® SF 356 mortar

Clean, dry, dust free silica sand may be mixed into **abecote® SF 356** to make a screeding mortar. It is normal to add three volumes of silica to one of mixed **abecote® SF 356**. This is mixed thoroughly in a rotating pan type mixer until the aggregate is fully coated.

APPLICATION

abecote® SF 356 coating

abecote® SF 356 should be applied by brush or short-fiber roller. When applying over asphalt a rubber squeegee may be used.

To improve traction it is common practice to blend the still wet abecote® SF 356 with dry, dust-free sand or fine chippings.

Being an amine-cured system abecote® SF 356 is prone to

'bloom' if drying occurs when humidity is high. This results in a haze forming on the surface of the coating, which is detrimental to good intercoat adhesion. If 'bloom' is present the surface must be wiped down with **abe**® **thinners no. 3** before recoating.

Semi-confined areas – although solvent-free, amine fumes require that breathing apparatus be used and that working areas be well ventilated.

abecote® SF 356 MORTAR

The usual thickness of this mortar is 5 mm and it must be laid on to a surface which has previously been primed with a diluted coat of **abecote® SF 356** as detailed under PRIMING of concrete and masonry above.

Mortar yields 2ℓ kit+13 kg sand yields approx. 6.9ℓ 5 L kit + 3x9.5 kg sand yields approx. 15.7ℓ

TEMPERATURE & RELATIVE HUMIDITY

abecote® SF 356 should not be applied if the ambient temperature is below 10 °C. The curing reaction will not proceed at low temperatures.

If surfaces are not at least 2 °C above the dew point, a film of condensed moisture may be present. This will adversely effect adhesion of the coating. When work is carried out in full sun, the surface temperatures may rise far above ambient, it will be found that the film will remain thermoplastic until full cross-linking of the coating has taken place.

CLEANING

abe® super brush cleaner before dried/cured.

PROTECTION ON COMPLETION

Protect surface against traffic and spillage until cured.



MODEL SPECIFICATION

Two-component, solvent free, high chemical resistant amine cured epoxy coal tar system. The coating/flooring will be **abecote®**SF 356, a two component, solvent free, high chemical resistant amine cured epoxy coal tar applied in accordance with a.b.e.® recommendations including necessary primers and fillers where directed.

PACKAGING

abecote® SF 356 is supplied in 2 litre and 5 litre metal containers.

HANDLING & STORAGE

All **abecote® SF 356** rrelated products have a shelf life of 24 months if kept in a dry, cool store in the original, unopened packs. If stored at high temperatures and/or high humidity conditions, the shelf life may be reduced.

HEALTH & SAFETY

Uncured **abecote® SF 356** is toxic. Ensure working area is well ventilated during application and drying.

Avoid inhalation of dust and contact with skin and eyes. Suitable protective clothing, gloves, eye protection and respiratory protective equipment should be worn. The use of barrier creams provides additional skin protection. If contact with skin occurs, wash with water and soap. Splashes into eyes should be washed immediately with plenty of clean water and medical advice sought.

Cured **abecote® SF 356** is inert but must not be allowed to come in contact with foodstuff or drinking water. When transporting liquids and semi liquids by aircraft, ask for material safety data sheet.

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst a.b.e.® endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot accept any liability for application – because a.b.e.® has no direct or continuous control over where and how a.b.e.® products are applied.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.

a.b.e.® has a wealth of technical and practical experience built up over the years in the company's pursuit of excellence in building and construction technology.

Please consult our website for our latest datasheets.

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