



# abetop

## Heavy-duty metallic-aggregate topping

### DESCRIPTION

**abetop** is an industrial floor topping that provides extended working time and extra heavy duty protection against abrasion and impact.

Whether applied over new concrete or over existing hardened concrete, this topping gives an appreciably longer serviceable life than normal, high strength concrete or natural-aggregate toppings.

Along with compressive strengths, **abetop** topping has a lower modulus of elasticity than equal strength concrete toppings. Thus, **abetop** is less brittle and more resistant to dynamic loads. Impact resistance and total energy-absorbing capacity – known as toughness – are also improved.

### USES

- Key areas subject to heavy traffic, impact, abrasion and continuous wear – loading docks, aisles, refuse transfer facilities, truck or tractor repair areas, and mill scale flumes.
- Areas where safety inspectors have deemed other floor surfaces hazardous because of excessive wear, dangerously buckled steel plates and other considerations.

### NOTE:

Should not be used in areas where excessive corrosion is likely due to exposure to acids, their salts or other materials which seriously and rapidly attack cement and/or iron.

### COLOUR

Grey

### FEATURES & BENEFITS

- Highly abrasion resistant – has eight times more wear-resistance than plain concrete.
- Greater toughness – energy-absorbing capacity is significantly

greater than plain concrete and high-strength, natural-aggregate toppings.

PROPERTIES OF CURED TOPPING	
TYPICAL COMPRESSIVE STRENGTH DATA	
50 mm cubes cured at 21° C using 2,5-3,5 l of water per 25 kg bag of topping.	
24 hours	MPa
7 days	30
28 days	55
	80
The data shown is based on controlled laboratory tests. See 'application'	

- Added impact resistance – tests show impact resistance four times greater than plain concrete.
- High density – reduces oil and grease penetration, and many industrial chemicals.
- Reduced shutdown time – floors can be returned to service faster.
- Low maintenance costs – reduces dusting and absorption, therefore floors are easier to clean.
- Protects against joint deterioration – minimises damage to production goods and increases the life of material-handling equipment.

### SURFACE PREPARATION

#### Monolithic Application

Ensure that there is no bleed water present.

The surface must have reached an "initial set" in order to walk on to render the surface "open" with a wooden float.

#### Previously cured concrete application

Concrete substrate must have a minimum tensile strength of 1.5N/mm<sup>2</sup>. Concrete shall be free of all laitance and preferably should be lightly vacuum blast cleaned leaving a uniform texture. All surface defects may be patched with **durarep FR**.

### PRECAUTIONS

- Do not apply **abetop** topping over fresh concrete containing calcium chloride, aggregate contaminated with salt water or more than 3% entrained air or in bleed water.
- Use only potable water when mixing **abetop** topping.
- Under no circumstances must a latex product be used with **abetop** or in the bond coat.

### BONDING / PRIMING

No bond coat required when placing monolithically at 9-25 mm thickness.

Bond coat – **epidermix 116** or **epidermix 344**.

### COVERAGE

One 25 kg bag of **abetop** topping mixed with 2,5 l of water provides approximately 6,5 l of topping. This amount will cover approximately 0,25 m<sup>2</sup> at 25 mm thickness.

### Rate of use

Use approximately 100 kg/m<sup>2</sup> to produce a 25 mm thick topping. For thinner toppings, see precautions.

**NOTE:** Contact the local **abe** representative for information on application procedures, suggested armouring thicknesses and service.

### Recommended thickness

- 25 mm and over, for impact and abrasion resistance - cement slurry bond coat required on set slab.
- 19 mm - 25 mm, for impact and abrasion resistance – epoxy bond-coat required on set slab.
- 13 mm - 19 mm, for abrasion resistance, and impact - epoxy bondcoat required on set slab.

### APPLICATION

Reasonable variations from the results shown may be experienced as a result of atmospheric and job-site conditions.



Field and laboratory tests should be controlled on the basis of the desired placing consistency.

Mix the entire bag of **abetop** topping when preparing cubes for strength. Immediately apply **abe** membrane curing compound such as **duracure SBC** as soon as the surface will not be marred.

## CLEANING

Water before dried/cured.

## PROTECTION ON COMPLETION

Protect surface against traffic and spillage until cured.

## TEMPERATURE AND RELATIVE HUMIDITY

As for concrete work.

## MODEL SPECIFICATION

**All-iron, dry shake, heavy duty floor topping.**

The floor topping will be **abetop**, an all-iron, dry shake, malleable heavy-duty floor topping applied in accordance with **abe Construction Chemicals'** recommendations including curing with **duracure SBC**.

## PACKAGING

**abetop** is supplied in 25 kg paper bags.

## HANDLING & STORAGE

All **abetop** related products have a shelf life of 12 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

Avoid inhalation of dust during mixing by wearing dust masks. The use of gloves, eye protection and dust masks is advised.

## IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **abe Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because **abe** has no direct or continuous control over where and how **abe** products are applied - accept any liability either directly or indirectly arising from the use of **abe** products, whether or not in accordance with any advice, specification, recommendation, or information given by the company.

## 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. **abe Construction Chemicals** has a wealth of technical and practical experience built up over years in the company's pursuit of excellence in building and construction technology.