



Stabilcem CA

Special ready-to-use cementitious binder to be mixed with water to form extra fluid slurry for consolidating bituminous conglomerate floorings, such as Open Grade draining-type

WHERE TO USE

To form areas and bays allocated for road surfaces subject to heavy traffic.

Some application examples

- Road surfaces in airports (taxi ranks and parking areas).
- Areas allocated for parking and/or storage areas for loading and unloading goods.

TECHNICAL CHARACTERISTICS

Stabilcem CA is a one component cementitious system which is easy to apply. It is highly fluid and mechanically strong, and is used to form mixed road surfaces in bituminous conglomerates and cement which are hard wearing and resistant to heavy traffic.

APPLICATION PROCEDURE

Preparation of the substrate

The bituminous conglomerate substrate must have a void content of approximately 25%, and the thickness must vary between 4 cm and 6 cm.

Stabilcem CA must be laid at least 24 hours after laying the bituminous conglomerate floor so that it has time to cool down and, therefore, to avoid loss of product fluidity characteristics of this cementitious system.

Preparation of the mix

We recommend using a mechanical mixing system to prepare the mix, such as a vertical-axis turbo mixer, which is able to mix the powder and water at a speed of at least 1500 rpm.

If only small quantities are required, a drill with a mixing attachment suitable for mixing fluid materials may be used.

The product must be mixed by adding water and **Stabilcem CA** while mixing, until a lump-free, fluid slurry is obtained.

Application of the mortar

The cementitious mix must be laid on the road surface in two successive layers, to allow the air trapped in the substrate to be released. The product must be applied by pouring the fluid mix directly onto the road surface, or by pumping using a collector tank connected to a piston-type or worm screw-type pump through which the material runs through tubes and is poured onto the road surface.

The product must then be spread out evenly with a trowel until the substrate of the bituminous conglomerate road surface floor is completely filled. A few minutes after application of the product, a uniform layer of **Mapecure S** must be sprayed over the surface. This is a film-forming curing product which contains solvents, and has an average consumption rate of 100 g/m².

To increase the roughness of the surface, the road

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	powder
Colour:	grey
Bulk density (kg/m³):	970
Dry solids content (%):	100
Hazard classification according to EC 1999/45:	irritant. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
Customs class:	3824 50 90
APPLICATION DATA	
Mixing ratio:	100 parts of Stabilcem CA with 29-30 parts of water
Recommended application temperature range:	from +5°C to +35°C
Setting time - start/finish:	< 5 h / < 7 h
FINAL PERFORMANCES (+23°C - 50% R.H.)	
Density of mix (kg/m³):	2000-2100
Bleeding:	none
Fluidity (Flow-cone):	35-40 seconds
Compressive strength (N/mm²): - 1 day: - 7 day: - 28 days:	≥ 45 ≥ 70 ≥ 80
Flexural strength (N/mm²): - 1 day: - 7 day: - 28 days:	≥ 8 ≥ 9 ≥ 10

surface may be shot-blasted after approximately 24 hours.

PRECAUTIONS TO BE TAKEN DURING AND AFTER APPLICATION

- No special precautions need to be taken when the temperature is around +5°C.

Cleaning

Due to the high bonding strength of **Stabilcem CA**, even on metals, we recommend that work tools are washed with water before the mortar sets. Once it has set, cleaning may only be carried out by mechanical means.

CONSUMPTION

4.2 kg/m² per cm of thickness of bituminous conglomerate road surface with 25% of voids.

PACKAGING

20 kg sacks.

STORAGE

Stabilcem CA may be stored for 12 months when contained in a dry place in its original packaging.

Manufactured in compliance with the regulations of the 2003/53/EC Directive.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Stabilcem CA contains cement that, when in

contact with sweat or other bodily fluids, produces an irritant alkaline reaction and allergic reactions in those predisposed. Wear protective clothing, gloves and eye/face protection. For further information refer to the Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

**All relevant references
for the product are available
upon request and from
www.mapei.com**

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