

CEMSCREED 40

Screed, topping & paving bedding mortar

**DESCRIPTION:**

CEMSCREED 40 is a mid range concrete screed, topping & paving bedding mortar for 10mm to 50mm deep applications.

TYPICAL APPLICATIONS:

- Toppings & screeds on concrete slabs
- Floor preparation screeds
- Shower and bath bases
- Paving bedding

ADVANTAGES:

- Cost effective
- Good compressive strength
- Good bond strength
- Shrinkage compensated
- Durable

TECHNICAL DATA:

COMPRESSIVE STRENGTH: 40MPa at 28 days

BOND STRENGTH: > 3MPa

THERMAL COEFF. OF EXP: 9.0×10^{-6} mm/mm/ °C

WORKING TIME: 45 minutes at 20°C

APPLICATION TEMP: 5°C to 30°C

POT APPEARANCE: Sand/cement grey powder

The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations may occur on site.

PACKAGING:

25kg bags.

YIELD:

Approximately 12.5L or 0.0125m³ per 25kg bag.

STORAGE & SHELF LIFE

Can be stored in its original packaging in a dry place well sealed for a period of 6 months after production. Do not store opened bags.

SUBSTRATE PREPARATION:

Concrete substrates should be sound & roughened to ensure a good bond. They should be uncoated & clean, free from all contaminants, loose particles, dirt, oil, mould, curing

compounds, sealers & paints etc. Acid washing, rough honing or scabbling & then water blasting is required to prepare the surface depending on substrate condition. Washing with soap & water blasting may also be required if oil is present. Cracks should be repaired with a suitable Cemix repair product. The better the substrate preparation & condition the better the end result. The concrete substrate should ideally be at least 1 month old.

PAVER PREPARATION:

When using CEMSCREED 40 as a paving bedding mortar, the back of the pavers should be sound, clean, roughened & damp to ensure a good bond. The rougher the back of the pavers the better the end result. Concrete pavers should ideally be at least 1 month old.

CONTROL JOINTS:

Honour any control joints in the concrete substrate – do not apply product over control joints. Mimic control joints in concrete substrate up into the mortar. Install control joints in the topping. Recommended control joint spacing is 4m x 4m. Control joints are required at topping penetrations & distinct depth changes in the topping.

MIXING:

Mix whole bags of product. Add approximately 2.8L of water to mixer, then add product to water. Add rest of water slowly whilst mixing until the desired consistency is achieved. Maximum total water is approximately 3L per 25kg bag. **For improved bonding & screed performance as well as when using the product as a paving bedding mortar, mix CEMSCREED 40 with 1L of MULTIBOND and approx 2L of water.** Mix thoroughly for 2 to 3 minutes using a drill & paddle or mechanical mortar mixer. Use product immediately as this is a reasonably fast setting product. Do not mix more product than can be mixed, placed & finished in 45 min. Use chilled water in hot weather as well as to extend working time slightly in normal ambient temperatures.

APPLICATION:

Screed / Topping: Dampen the roughened concrete substrate & then prime it with Cemix MULTIBOND brushed undiluted into the surface just prior to mortar application. Do not let the MULTIBOND dry. Firmly push the CEMSCREED 40 into the surface to compact it & obtain a wet bond, while the MULTIBOND is still wet. Application is from one side of the floor to the other. Apply product to a minimum depth of 10mm & a maximum depth of 50mm. Avoid featheredging. Compact, screed & trowel finish final surface as required.

Apply product in layers for thicker repairs - Roughen the preceding layer prior to it hardening & prime the preceding layer after it has hardened as discussed above.

Paving Bedding Mortar: Dampen the roughened concrete substrate & then prime it with Cemix MULTIBOND brushed undiluted into the surface just prior to mortar application. Only prime the area about to come into contact with mortar & do not let the MULTIBOND dry.

Dampen the roughened back & top of the pavers & then prime them with Cemix MULTIBOND brushed undiluted into the surface just prior to paver installation. It is useful to dip the pavers in water prior to priming to wet the whole paver. Only prime the pavers about to be used & do not let the MULTIBOND dry.

Apply CEMSCREED 40 mortar to the wet or tacky MULTIBOND on the concrete substrate. Apply mortar in a manner that will facilitate paver installation to the correct nominal thickness (10mm to 50mm) after tamping, by overfilling mortar ready for tamping down level.

Install primed paver onto the CEMSCREED 40 and tamp it down into place. Tamp the paver down level ensuring falls and levels are correct. Ensure that after tamping, the mortar is in contact with the complete underside of the paver and that no voids exist. Let the mortar stiffen slightly and then tool the edges of the mortar with a suitable tool to tightly compact the mortar underneath the paver. Pavers must not rock after laying.

CURING:

Screed / Topping: It is very important to prevent early plastic state moisture loss prior to the product setting. Cure product thoroughly after it has set by keeping it wet & covered for at least 7 days. Avoid product freezing for at least 3 days.

Paving Bedding Mortar: Keep the top of the pavers damp for approx 3 to 4 hours immediately after installation. Thereafter & once set, keep the pavers and bedding mortar damp and covered for at least 7 days. Avoid pedestrian traffic on the pavers for at least 7 days. Avoid product freezing for at least 3 days.

PRECAUTION

Do not apply product onto surfaces less than 5°C & more than 30° C. Do not use product in temperatures less than 5°C & more than 30° C.

In applications where surface aesthetics is important, seal finished surface with Cemix CEMPROTECT or CEMPROTECT WO 24 hours after installation

CLEANING:

Clean all tools with water & brush immediately after use.

SAFETY:

Avoid contact with eyes & skin, both from wet & dry mix. Do not breathe in dust. Wear suitable protective clothing, gloves, eye protection & barrier cream. Wear a suitable dust mask. Wash thoroughly after handling & store any leftover material properly.

FIRST AID:

Irrigate eyes & skin with plenty of water & seek medical advice immediately.

SPILLS & LEAKS

Keep out of sewers & storm water drains & dispose of any leftover material as trade waste in accordance with local authority guidelines.

DISCLAIMER:

Recommendations & advice regarding the use of this product are to be taken as a guide only. Other than as appears on this products packaging, CEMIX LTD does not give any warranty express or implied as to the suitability of this product for your particular use, because the usage of this product is beyond the control of CEMIX LTD. If you need advice concerning the use of suitability of this product for your particular application, please contact CEMIX LTD first.

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