

Squash Court Wall Plastering Coats

New Formulation # Two Component

Cem Coat 5mm for Base Coat

Cem Coat 3mm for Finish Coat

Description

Cem Coat, is a partially non-shrink & non sagging, premixed Polymer plus Calcium Carbonate Base for Squash Court Wall plastering works, it's provides extended working life & high early strengths.

Due to its new formulation, **Cem Coat** product is based on selected high grade of Calcium Carbonate Mineral, Original Portland White Cement Type & Rheological Additives. For better workability of smoother & stabilized air voids.

General

The squash court wall to receive **Cem Coat 5mm plus Cem Coat 3mm** must be constructed from high quality dense common clay brick (min. compressive strength 21 N/mm²), dense aggregate concrete block (min. compressive strength 7N/mm²) or correctly prepared insitu concrete. Sandlime, flintlime, or calcium silicate bricks, lightweight aggregate blockwork, concrete brickwork, or hollow clay pots should be avoided wherever possible. If these or other forms of construction have been used, take advice from our specified worldwide applicator or the call us directly.

Method of Application

Surface Preparation

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated but with no surface water. This condition is referred to as saturated surface dry and care should be taken to remove any cement slurry or dust produced during surface preparation. The use of a "fan" shaped water jet is ideal. Steel reinforcements should have all traces of rust removed and be primed.

Dissimilar Materials

The application of **Cem Coat** onto dissimilar substrates within the same wall should be avoided. Dissimilar materials expand and "flex" differently causing cracks. Examples found in practice have been mixed brickwork and blockwork in a wall or beams/columns running through either brickwork or blockwork in the wall. If court construction makes avoidance of such features impossible, we recommend the use of glass woven membrane encapsulated in a layer of **Cem Coat 3mm** Finishing Coat which can be considered a good palliative but not a cure; it should reduce the likelihood of serious cracks developing in use. Apply a 1-2mm layer of **Cem Coat 3mm** Finishing Coat over the joint and approximately 150mm, on either side. Place a 200-300mm wide strip of our G.W. Membrane into the still wet **Cem Coat 3mm** Finishing Coat layer so that it bridges the joint. Sandwich the G.W. Membrane with another 1-2mm layer of **Cem Coat 3mm** Finishing Coat, ensuring that the membrane is thoroughly impregnated and not rucked. Overcoat with Formula Base Screed as soon as initial set occurs i.e. 1 ½-3 hours.

Application

The minimum thickness of **Cem Coat 5mm** Base Screed is 6-9mm. Greater thickness may be applied dependent on site requirements. The minimum thickness of **Cem Coat 3mm** Finishing Coat is 2-3mm. It is not usual to require a thickness greater than this if the Base Screed is applied as specified below.

Base Screed

Cem Coat 5mm Base Screed is applied to the correctly prepared surface from a hawk or bucket using a trowel. The minimum thickness of 9mm is normally attained in 2/3 trowel applications. This minimum thickness can be achieved either by working from fixed timber grounds, by forming grounds using **Cem Coat 5mm** Base Screed or by the plumb and dot system. A 12mm ground at floor level is recommended to prevent the risk of a scooping effect leading to reduced thickness at low level. Temporary grounds must be removed the same day as the **Cem Coat 5mm** Base Screed is applied and the voids made good with **Cem Coat 5mm** Base Screed that day.

It is not necessary or desirable to trowel **Cem Coat 5mm** Base Screed to a polished finish. In fact over-trowelling should at all times be avoided. The purpose of **Cem Coat 5mm** Base Screed is to provide a level, plane surface with a closed texture. This is obtained by building up the **Cem Coat 5mm** Base Screed to a sufficient thickness so that it can be ruled off. Stainless steel or aluminium straight edges should be used. Timber is unsuitable owing to the somewhat sticky nature of **Cem Coat 5mm** Base Screed. Any open textured area of Base Screed must be closed using the minimum amount of trowelling. The Base Screed must be checked to see that it is plumb and free from undulations before it sets.

When fixing grounds, these should be 12mm thick at the top and bottom of the play area (normally a deflection board forms the ground at the play area) with a choice of intermediate grounds fixed at 9mm in order to allow ruling off procedures. It is essential, therefore, that walls are built as true and accurate as possible to achieve economy of materials.

Finishing Coat

The **Cem Coat 3mm** Finishing Coat must be applied onto set but not dry **Cem Coat 5mm** Base Screed. The use of "plaster planes" to remove surface irregularities in the Base Screed is not normally recommended as this may produce a friable surface which results in adhesion failure of the **Cem Coat 3mm** Finishing Coat.

To achieve maximum adhesion, the **Cem Coat 3mm** Finishing Coat must be applied within 24 hours of applying the Base Screed, which must first be dampened if it has dried.

The **Cem Coat 3mm** Finishing Coat is put on as a multi-coat system wet on wet by firm trowelling. It is essential that the first coat over the damp Base Screed to expel any trapped air and to ensure good adhesion. The second and subsequent coats are applied thicker than the first coat but still applied with pressure from the trowel ensure that any trapped air is expelled and to obtain good adhesion between coats.

The aim of the applicator during this part of the operation is to produce a final surface which has a minimum thickness of 9mm and is smooth, dense and free from entrapped air.

The normal working time of the **Cem Coat 3mm** Finishing Coat is 40-50 minutes on the hawk depending on the prevailing conditions. The setting time of the Finishing Coat is 1½ - 3 hours again depending on the prevailing conditions. Any trowel marks can be removed by light application of a wetted **Cem Coat** sponge float to 2-3 square-meters only at a time when the plaster is partially set. A paste is formed on the surface which is immediately trowelled off to give a flatter surface. This operation may be repeated (later) but care must be taken to avoid excessive trowelling which may result in a patchy surface.

The final surface required is smooth, dense and matt. This is achieved by using the minimum of trowelling. Over-trowelling in the final trowel-up may result in an unsatisfactory appearance and playing surface.

Technical Data

Ball Pressure Hardness (Brinell)	at 25°C	after 1 days: after 3 days after 7 days	21 N/mm² 32 N/mm² 50 N/mm²
Density Wet Mortar		approximately	2.05 kg/litre
Initial Set (Vicat)	DIN 52450 at 25°C	approximately	½ hour
Final Set (Vicat)	DIN 52450 at 25°C	approximately	>3 hour
Compressive Strength	DIN 52450 at 25°C	after 28 days:	25 N/mm²
Tensile Strength	DIN 52450 at 25°C	after 28 days:	6.5 N/mm²
Flexural Strength	DIN 52450 at 25°C	after 28 days:	16 N/mm²

Daily Working

It is essential to complete the **Cem Coat 5mm** Base Screed or **Cem Coat 3mm** Finishing Coat application to any given wall in the same day thereby AVOIDING DAY JOINTS and adhesion problems. It is good practice to apply base and finish to any given wall in the same day.

Cleaning of Equipment

All tools and mixing containers should be washed and cleaned in water immediately after use before the material sets.

Coverage of Walls

Cem Coat 3mm (Finish)

Cem Coat 5mm (Base)

Cement Brick Wall	4mm thick @ 3.12/m ² /set	8mm thick @ 1.56/m ² /set
Smooth Hollow Block Wall	3mm thick @ 4.16/m ² /set	5mm thick @ 2.50/m ² /set
Reinforced Concrete Wall	3mm thick @ 4.16/m ² /set	5mm thick @ 2.50/m ² /set

Packaging

Cem Coat 3mm	28 kg set
Cem Coat 5mm	28 kg set

Storage Shelf Life

Cem Coat 3mm or 5mm, 12 months if stored in dry conditions.

Handling Precautions

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic Precautions for Handling Plastic Products"

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Health & Safety Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LAMACO Malaysia** on request and sent with each delivery.




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