

ECOSCREED RAPID 24 CEMENT

RAPID DRYING CEMENT FOR FLOOR SCREEDS

Description

Ecoscreed Rapid 24 Cement 1:4/1:5 is a special cement powder for rapid setting and rapid drying bonded, unbonded or floating screeds. It consists of high quality synthetic resins and special cements. Mixing 1 part cement to 4 parts of clean sharp Grade M or C sand to BS 882, will achieve a screed with a minimum compressive strength of 40 N/mm² and will be dry enough to receive floor coverings after 1 day at 20°C. The mixed Ecoscreed Rapid 24 Cement 1: 4 screed will have a working time of approximately 30 minutes at 20°C and can be walked on after 3 hours.

NB. If floor coverings are to be installed after 24 hours then it is important to check that the concrete substrate is sufficiently dry prior to application of the Ecoscreed Rapid 24 Cement 1:4 screed mix.

Design Use

Ecoscreed Rapid 24 Cement 1:4/1:5 can be used to produce either a bonded, unbonded or floating internal screed when mixed either 1 part cement to 4 or 5 parts of Grade M or C clean sharp sand to BS 882. (NB. Not more than 10% passing 150 microns) The cement is specifically designed to provide both rapid drying and early foot traffic access. Where a heavy-duty floor is required, then the screed can be mixed on a 1: 4 basis, otherwise for general screeding applications a 1:5 mix may be used.

NB. The Ecoscreed Rapid 24 Cement 1:4/1:5 screed should not be used as a wearing surface.

Prior to overlaying with vinyl then prime with Ecoscreed Primer AP1000 and apply a smooth coating of Ecoscreed Rapid 24 (Underlayment).

Substrate Preparation

The preparation of substrates by mechanical methods such as shotblasting, scabbling or diamond grinding is considered the most effective means of providing a suitable mechanical key. The concrete substrate should be hard, sound and free from dirt, dust, oil, grease, paint, plaster, laitance or other contaminants, which could act as a barrier to adhesion. On direct to earth concrete floors ensure that a suitable damp proof membrane is installed.

Bonded Screed

Ecoscreed Rapid 24 Cement 1:4/1:5 screed can be applied as a bonded screed to dry concrete surfaces by using a creamy grouting slurry produced by mixing 1 part Ecoscreed Rapid 24 Cement powder to 1 part clean sand and the required amount of Ecoscreed Primer AP1000 to produce a creamy slurry. NB. The Ecoscreed Rapid 24 Cement 1:4/1:5 screed should always be applied and compacted to the substrate whilst the grouting slurry is still wet.

Unbonded/Floating Screed

Always ensure that the concrete substrate is sound and true, flat and free of debris prior to the laying of the separating polythene and / or insulation layer. Do not use folded polythene since the folds can act as crack inducers.

Mixing

NB. A free fall mixer should never be used.

Use a pan or forced action mixer to ensure correct mixing of the powder and sand takes place. Depending upon the moisture content of the sand used then approximately 6 to 8 litres of water will be required per 25kg bag of Ecoscreed Rapid 24 Cement 1:4/1:5 cement powder. Add ONLY sufficient water to produce a workable mix that will keep its shape when squeezed in the hand.

NB. There should be no mix water appearing on the surface after compaction has taken place.

Application

Once mixed, the Ecoscreed Rapid 24 Cement 1:4 screed should be applied immediately and will have a working time of approximately 30 minutes at 20°C. Only mix the required amount to allow correct application and finish trowelling to take place. The applied screed should not be subjected to direct sunlight or through wind drafts whilst curing.

Thickness

Bonded Screed - Ecoscreed Rapid 24 Cement 1:4/1:5 screed can be applied as a bonded screed to a minimum thickness of 25mm and a maximum thickness of 49mm .

Unbonded/Floating Screed - The standard mix of Ecoscreed Rapid 24 Cement 1:4/1:5 screed is suitable for a minimum thickness of 50mm in one single application.

Coverage

Approximately 0.37kg of Ecoscreed Rapid 24 Cement powder/mm/m² for a 1:4 mix

Approximately 0.32kg of Ecoscreed Rapid 24 Cement powder/mm/m² for a 1:5 mix

Packaging

Ecoscreed Rapid 24 Cement is packed in net weight 25kg paper sacks incorporating a polythene liner

Storage

Ecoscreed Rapid 24 Cement has a storage life of not less than 12 months if stored in dry conditions

Precautions

Ecoscreed Rapid 24 Cement is non hazardous in normal use. The presence of cement in the product gives an alkaline screed which may cause irritation if prolonged contact with the skin takes place. Care should be taken to avoid inhalation or ingestion of dust and prevent contact with the eyes. Wear suitable protective gear.

Technical Data

Working Time @ 20°C : 30 minutes approx at 20°C (Temperature dependent)

Compressive Strength : Approx 40 N/mm² at 28 days 1:4 mix - Approx 30 N/mm² at 28 days 1:5 mix

Tensile Strength : Approx 8 N/mm² at 28 days 1:4 mix - Approx 6 N/mm² at 28 days 1:5 mix

Isolation

In accordance general codes of practice it is recognized that all isolation joints, construction joints and columns joints should be isolated or maintained through the screed to allow both the screed and substrate to move freely relative to all fixed parts of any building.

Ecoscreed Ltd provides the above data in good faith , without warranty and as a guide to typical values only. The company reserves the right to alter the data at any time. No liability can or will be accepted for any loss or damage arising from the use of either the product or this technical data since the company has no direct or continuous control over where or how its products are applied. We refer also to our standard Terms and Conditions of Sale which are available on request. **This data should not be taken as a specification.**