

DCP SCREED BINDER RAPID



Rapid drying floor screed binder

TECHNICAL DATA SHEET PUBLISHED September 2021

PRODUCT FEATURES

DCP Screed Binder Rapid is a proprietary, fibre reinforced cementitious binder used for creating rapid drying and high strength category A and category B screeds.

Screeds produced with DCP Screed Binder Rapid have a typical drying time of 5 days, considerably faster than traditional sand/cement screeds. DCP Screed Binder Rapid is suitable for use with underfloor heating systems.

DCP Screed Binder Rapid can be used to create bonded, unbonded and floating screeds in internal applications where a rapid return to service or handover is required. Typical uses include commercial and residential projects such as schools, supermarkets and offices.

MATERIALS SUPPLIED

20 kg paper sacks.

STORAGE

Protect from frost and store under dry warehouse conditions at a temperature between 10°C and 30°C.

SHELF LIFE

6 months if stored in unopened packaging and stored under proper conditions.

APPLICATION INSTRUCTIONS

BONDED SCREEDS

Concrete and sand / cement screeds must be sound, dry and fully cured (not subject to shrinkage) and any laitance or surface treatments must be removed by mechanical means such as grit blasting. The surface tensile strength of the substrate should be a minimum 1.5 N/mm².

Concrete substrates should be primed using Neoprene Primer. Another application procedure is by preparing a bonding latex slurry and the application of the mortar while the slurry is still wet.

If there is a concern of negative water pressure, Strongcoat DPM should be applied as a damp proof membrane which is broadcast with a quartz aggregate to form a key for the bonding slurry. The temperature of the floor must be maintained above 10°C throughout the application and drying of the DCP Screed Binder Rapid.

TECHNICAL INFORMATION

| | | |
|--|----------------------------------|----------------------|
| Mix ratio | 3:1 sand : binder | 4:1 sand : binder |
| Working time @ 20°C | 60 min | |
| Drying time @ 20°C | 5 days per 25 mm | |
| Foot traffic | 12 hr | |
| Soundness | Category A | Category B |
| DCP Screed Binder Rapid required per m ² @75 mm thick | 25 kg/m ² | 20 kg/m ² |
| Minimum thickness bonded | 35 mm | |
| Minimum thickness unbonded | 50 mm | |
| Minimum thickness flating | 65 mm | |
| Compressive strength BS EN 13892-2 | > 30 N/mm ² @ 28 days | |

UNBONDED AND FLOATING SCREEDS

Walls and columns must be isolated with suitable separation joints. Substrates and insulation boards should be stable with no lateral movement possible.

UNDERFLOOR HEATING

When screeding over underfloor heating pipes, a minimum cover of 25mm is required above the pipes. Underfloor heating should be pressurised and commissioned following the manufacturer's instructions.

VENTILATION

Suitable ventilation is required however ensure doors and windows are sufficiently closed to prevent draughts during application and whilst curing.

MIXING

HAND APPLICATION

DCP Screed Binder Rapid should be mixed with clean, screeding sand to the grading in BS 8204-1. Mix to a damp earth consistency using a forced action mixer. Do not over water and do not add any additives not approved by Don Construction Products.

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The recommended Sand : Binder ratio is between 3:1 to 4:1 by weight. The advised used water is in the range of 5 – 6 Liters per 20 kg bag binder.

The screeding sand with the following sieving analysis is advised:

| Sieve | % Retained |
|---------|------------|
| 10 mm | 0% |
| 5 mm | 0 - 10% |
| 2.36 mm | 15 - 25% |
| 1.18 mm | 20 - 30% |
| 0.6 mm | 20 - 30% |
| 0.15 mm | 20 - 30% |

APPLICATION

DCP Screed Binder Rapid should be placed immediately after mixing. Spread the mixed DCP Screed Binder Rapid in the application area and thoroughly compact. Screeds thicker than 50mm must be laid in two layers (wet on wet) to ensure complete compaction.

CLEANING

Wash tools with water immediately after use.

PRECAUTIONS

Do not place when the substrate temperature is below 10°C or when the ambient temperature is 10°C and falling.

Protect from frost.

Do not exceed the maximum recommended water content and only use potable cold water.

This product is not recommended for external use or situations where water may come into direct contact with the cured material.

This product should not be applied to asphalt or bituminous surfaces.

HEALTH & SAFETY

Refer to the product Material Safety Data Sheets before using DCP Screed Binder Rapid.

GENERAL GUIDANCE

This data sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Services Department.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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