

DRYCEM

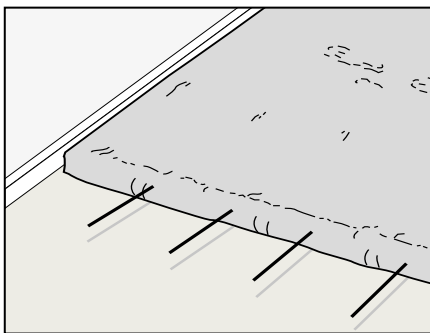
READY-TO-USE ULTRA-FAST DRYING SCREED WITH COMPENSATED SHRINKAGE

GRANTS *LEED* CREDITS

CHARACTERISTICS	ENVIRONMENTAL	METHOD OF USE	PRECAUTIONS
	ECO GREEN	RECYCLABLE	STORAGE: IN A DRY PLACE
		MIX MECHANICALLY	

PROBLEM

MAKE QUICK DRYING SCREEDS, PARTICULARLY SUITABLE FOR LAYING WOOD WITHOUT LONG WAITING TIMES



Time has the biggest impact on the cost of building work. Any time gained during the installation of floors depends on the curing time of the screed substrate.

SOLUTION

DRYCEM is a specially formulated hydraulic bonding agent which, once mixed with water and suitable aggregates, gives a very quick drying screed. If used in the correct mix proportions, the residual humidity after 3 days will be less than 2%.

The special formulation of **DRYCEM** causes the water in the mix to bind very quickly. It does not give rise to problems of cracking due to shrinkage and provides very high mechanical strength.



APPLICATION FIELDS

DRYCEM can be used to cast screeds on old or new slabs, whether floating or adherent, to allow the immediate installation of any ceramic, wood, carpet or linoleum flooring, etc. With **DRYCEM**, you can create screeds that can be walked on after just a few hours; rapid repairs can be made on the substrate followed by application of the flooring without the problem of interruption in use for traffic. The product can also be used to construct screeds with enclosed underfloor heating coils.

ADVANTAGES

- Rapid drying which makes it possible to walk on the screed or lay flooring soon after casting.
- Shrink-proof so there are no problems with cracking.
- Savings in time and money compared to traditional solutions due to quick application and the high workability of the product which allows the screed to be nearly completely dry in just 2 days.

METHOD OF USE

DRYCEM can be used to cast screeds on all kinds of substrates. In the event of rising damp, insert a suitable waterproofing layer.

• FLOATING SCREEDS

To separate the screed lay a PE insulating sheet on the slab which will act as a barrier against any rising damp (1). The sheets must overlap by at least 20 cm and be sealed with tape. The waterproofing sheet must be installed along the perimeter walls of the rooms, with compressible material in between, such as FONOCCELL ROLL, so as to create perimeter joints.

• ADHERENT SCREEDS

For irregular substrates with screeds that have a variable thickness or that are less than 40 mm thick, it is recommended to reinforce the middle of the screed with a 2 mm ϕ electro-welded metal mesh (mesh size 50x50mm) anchored onto the substrate. To improve adhesion to the surface apply mortar made with 3 parts **DRYCEM** and 1 part water-based latex, such as LATISINT, and 1 part water, onto which the

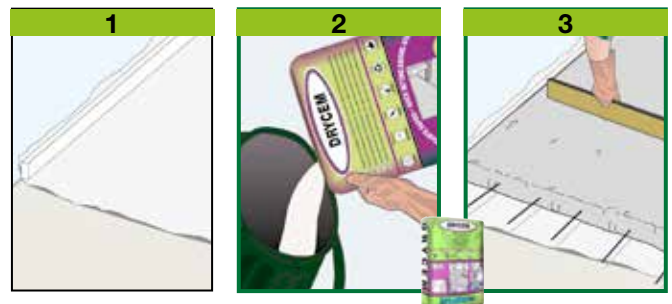
screed can be applied "fresh over fresh".

• MIX PREPARATION

Mix **DRYCEM** with 0 to 8 mm diameter mixed aggregates (in a constant granulometric curve) and water using normal site equipment (cement mixer, screw mixers, automatic pressure pumps).

The recommended **DRYCEM** ratio is 300 kg per cubic metre of sand. A 25 kg bag of **DRYCEM** may be mixed with approximately 120 kg of 0 to 8 mm aggregates and 6-8 litres of water.

(See following)



TECHNICAL CHARACTERISTICS

	Standard	DRYCEM
Appearance		Powder
Colour		Grey
Apparent volume mass		1.10 ± 0.10 kg/ℓ
Storage in original packaging in a dry place		12 months
Mix properties and workability	Standard	
Spread after shock movements (15 shock)		10%
Maximum application thickness over systems	UNI 11493	≥3 cm
Maximum application thickness for adherent screeds	UNI 11493	≥2 cm
Maximum application thickness for floating screeds	UNI 11493	≥4 cm
Maximum application thickness		10 cm
Waiting time - before foot traffic (*)		4 hours
Waiting time - for flooring (*)		8 hours
Waiting time - for wooden flooring (*)		3 days
Waiting time - for the start-up of heated floors systems (*)		3 days
Application temperature		+5°C ÷ +35°C
Performance characteristics	Standard	Product performance
Class and type	EN 13813	CT-C20-F4
Compression strength	EN 12190	≥20 N/mm ²
Bending strength	EN 12190	≥4.0 N/mm ²
Thermal conductivity λ _{10,dry}	EN 1745	1.32 W/mK (printout value)
Residual humidity after 3 days		2%
Thermal resistance - Working temperature		-30°C ÷ +90°C
Fire reaction	EN 13501-1	A1
Hazardous substances	EN 12004	According note in ZA.1

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. These data may change depending on specific site conditions: temperature, ventilation, moisture and substrate absorbency.

(*) The times indicated will be longer or shorter as the temperature drops or rises.

Compliant with the general principles defined in EN 13813 and according to Italian standard UNI 11493.

(See previous)

• APPLICATION

Apply the mix and smooth it down within 30 minutes of preparation (3). In high temperatures, spread out a PVC sheet straight after application so as to prevent the mortar drying too quickly.

Any casts carried out at different times on the screed must be connected by inserting 5 mm diameter iron bars 20 cm apart so as to guarantee perfect continuity.

For **heated floors**, the heating should not be started until at least 5 days after application at a supply temperature comprised between +20°C and +25°C; leave for at least 3 days then set the maximum design temperature and leave for at least 4 days. Let the screed cool to room temperature again (EN 1264-4 point 4.4). It is always recommended to insert a galvanised metal mesh reinforcement with narrow mesh size (2/3 cm) in the area where the pipes run, where the screed thickness may be lower (mini-

mum 3 cm, in accordance with UNI 11493).

• COVERAGE

The yield is approximately 3-4 kg/m²×cm of thickness.

• PRECAUTIONS

- Use cold water in summer and water at approximately 20°C in winter.
- Application temperature from +5°C to +35°C.
- Do not mix to earth moist consistency. Mix to semi-plastic consistency.
Do not add water once the mix starts to set.
- Do not add other additional materials to the mix such as cement, plaster, lime, etc.
- Do not wet the surfaces of the screed.
- In the case of rising damp waterproof before casting.
- Install a vapour barrier even on new slabs to avoid problems with residual humidity.
- Humidity testers that measure electrical conductivity give unreliable results; we rec-

ommend using a more precise carbon hygrometer.

- Do not expose the material to the sun in hot weather.
- Store in original closed packaging in a dry place. Protect against frost or high temperatures.

The numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

PACKAGING

DRYCEM
25-kg Sacks

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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