



TILE ON CONCRETE



Issue – TOC63 / 0413

**READY MIXED COARSE GREY
ADHESIVE & GROUT**

**EASY TO APPLY
THIN BED FLOOR ADHESIVE**

**HIGH TENSILE
STRENGTH**

Description:

TILE ON CONCRETE is a grey ready mixed coarse textured acrylic-based paste, suitable for use as a thin-bed ceramic tile adhesive and conforms to BS 5980 Type 2 Class AA (BS EN 12004 Type D2). Suitable for fixing all types of ceramic floor tiles, including mosaics, porcelain and vitrified tiles in internal locations not subject to water immersion. **TILE ON CONCRETE** is suitable for application on to most common types of solid floor, typically constructed from semi-porous masonry surfaces such as old concrete, smooth screed under-layments and conventional sand / cement screeds. Its' grey colour makes it a convenient alternative to traditional cement based floor tile grouts, however consideration should be given to the slower drying properties of this product, both as an adhesive and a grout, especially on impermeable surfaces and when temperatures are below 15°C. **TILE ON CONCRETE** is not suitable for use in external applications or where the tiled area may be subject to complete water immersion.

Surface Preparation:

All floor surfaces must be clean, firm and free of dust, dirt, oil, grease and loose flaking coatings. Concrete, cement and mineral based surfaces must be clean, dry and free from grease, dust and loose flaking coatings. Recently laid concrete floors and screeds must be allowed at least 6 weeks to fully cure and dry before **TILE ON CONCRETE** can be used to fix tiles. Checks should also be carried out to ensure that any solid surface is protected by a sub-floor damp-proof membrane. Worn or porous masonry surfaces should be sealed with **TILERS PRIMER SBR** diluted as 1 to 3 with water. **TILE ON CONCRETE** should not be laid on any floor where there is a risk of either water penetration from the surrounds or the substrate or where the floor may be subject to total water immersion. Fixers should be aware that dense impermeable surfaces such as power-floated or sealed floors will cause **TILE ON CONCRETE** to dry more slowly than when fixing onto a porous surface. **TILE ON CONCRETE** can be used to fix tiles over timber floors, providing they are structurally sound and braced securely enough to support the likely applied trafficking load without the risk of excessive deflection. Timber boarding should be waterproof rated, 15mm thick and be screw fixed at 150mm centres to provide a dimensionally stable background as described in BS 5385. **TILE ON CONCRETE** should not be applied to damp or impermeable surfaces or when the ambient temperature is persistently below 15°C as such conditions will prolong the adhesive drying process by several days.

Application Method:

To ensure **TILE ON CONCRETE** is easy to apply, stir the contents of the bucket thoroughly to produce a consistent readily workable paste. Use a flooring grade broad notched trowel (10mm x 10mm notch at 16mm centres) to give a ribbed bed on the substrate, into which the tiles are firmly pressed with a twist and slide action to ensure void-free complete contact. **It is essential to ensure that the pressed adhesive bed is no more than 3mm thick, otherwise the product will not achieve its' fully cured dry strength.** **TILE ON CONCRETE** must not be used to "fill out or level up" uneven or depressed surfaces as this will greatly prolong drying and lead to poor early strength development. The position of the tiles can be adjusted up to 10 minutes after initial fixing. Open time of the exposed adhesive bed is approximately 20 minutes, depending on

surface porosity and site conditions. Do not trowel out an area of adhesive greater than can be tiled over within a 10-minute period (about 1 square metre). Ensure all adhesive residues remaining on the tile face are wiped clean promptly as fixing proceeds, since **TILE ON CONCRETE** can be very difficult to remove when dry. Before returning to grout the tiled area, allow at least 24 hours for the adhesive to dry. On cool, impermeable surfaces up to three days may be required for the adhesive to dry and cure sufficiently to allow load to be applied. Expansion joints should be planned and installed in large floor areas in accordance with the recommendations of BS 5385.

Grouting:

Grouting may proceed as soon as the tile bed is sufficiently firm, which depending upon site conditions can be from 24 to 72 hours at room temperature. **TILE ON CONCRETE** when used as a grout should be applied in small areas at a time (1 square metre), with prompt attention paid to removing excess residues before they dry on the tile face. Use a lightly damp cloth to clean the grouted area and allow a further 24 to 48 hours for the joints to dry out at ambient temperatures (> 15°C). **TILE ON CONCRETE** will be suitable for grouting joints up to 10mm wide, however in applications where a wider joint is required, (up to 20mm) use **WIDE JOINT FLOOR TILE GROUT** or **FLEXI-FLOOR TILE GROUT** on surfaces where slight movement is likely.

Coverage & Classification::

When fixing on a level, even floor surface using a 10mm notched flooring trowel, **TILE ON CONCRETE** will cover at a rate of about 4kg per sq. mtr for heavy-duty, studded tiles fixed in a solid bed of adhesive.

 NB1289	
PALACE CHEMICALS Ltd Speke Hall Industrial Estate, Speke, Liverpool, L24 1YA 47 – 42 / 1-CPR/2013	
EN 12004:2007+A1:2012 – D2E Improved dispersion adhesive with extended open time for tiling	
Initial Shear adhesion strength	> 1.0 N/mm2
Shear adhesion strength after heat ageing	> 1.0 N/mm2
Open Time: tensile adhesion strength (30min)	> 0.5 N/mm2
Adhesion strength after water immersion	> 0.5 N/mm2
Adhesion strength at elevated temperatures	> 1.0 N/mm2
Reaction to Fire	Class F

As with all ready mixed tile adhesives **TILE ON CONCRETE** cures by the evaporation of water from the adhesive bed. Low temperatures, high humidity and low porosity surfaces all prolong drying time.

Storage & Packaging:

TILE ON CONCRETE is supplied either in a 15 kg bucket and has a storage life of not less than 12 months if kept in dry, un-opened conditions. Consult the **TILE ON CONCRETE** material safety data sheet for advice on handling and safety procedures.

Technical summary:

Appearance:	Colour:	Open time:	Drying time:	Coverage:
Coarse paste	Grey	30 minutes	24 – 72 hours	3 - 4 kg/sq. metre

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request



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