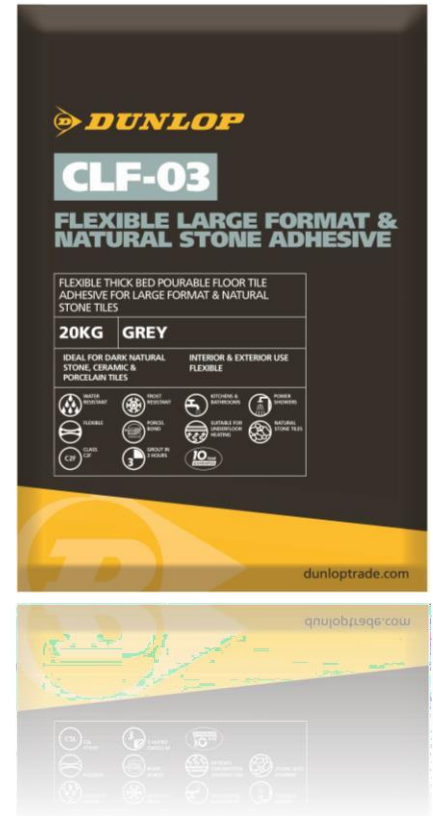


DUNLOP CLF-03 FLEXIBLE LARGE FORMAT & NATURAL STONE TILE ADHESIVE



TECHNICAL SUMMARY

Size	20kg
Colour	Grey & White
Classification	C2F
Composition	Improved fast setting cementitious adhesive
Coverage (20kg bag)	at 5mm thickness approx. 8.75kg/m ² at 10mm thickness approx. 17.5kg/m ² at 25mm thickness approx. 43.75kg/m ²
Pot Life*	30 minutes (grey) 60 minutes (white)
Open Time*	15-20 minutes
Setting Time*	3 hours
Grout After*	3 hours
Bed Thickness	3-25mm
Application Temperature	Room Temperature approx. 20°C (do not use below 5°C)
Storage & Shelf Life	This product must be stored in unopened packaging, clear of the ground in cool dry conditions between 5°C and 30°C and protected from excessive draught. Ensure part-used bags are resealed. If stored correctly the shelf life of this product is 12 months.

*Depending on temperatures, background and site conditions.

SITUATION

Walls	x	
Floors	✓	The surface must be clean, dry, sound and flat, the use of DUNLOP Levelling Compounds maybe required before starting.
Interior Dry	✓	
Wet Areas	✓	Floors only Background should be protected from water ingress. (e.g. by using DUNLOP SHOWER WATERPROOFING KIT) BS Standards recommend at least 2 weeks from completion of grouting before the shower can be used.
Power Showers	✓	Floors only Background should be protected from water ingress. (e.g. by using Dunlop Shower Waterproofing Kit). BS Standards recommend at least 2 weeks from completion of grouting before the shower can be used.
Swimming Pools	✓	Pool Base only Do not fill pool for at least 3 weeks after completion of the grouting and movement joints. Contact DUNLOP TECHNICAL HELPLINE for further advice.
Exterior	✓	DUNLOP FLEXIBLE ADDITIVE may be used to enhance performance in exterior situations. Contact DUNLOP TECHNICAL HELPLINE for further advice.
Underfloor Heated Screeds	✓	The underfloor heating should be commissioned before tiling can be started. The use of DUNLOP PROCOVER UNCOUPLING MAT maybe required. Contact DUNLOP TECHNICAL HELPLINE for more information. NOTE: Ensure the underfloor heating is re-commissioned correctly after completion of tiling.
Electric Undertile Heating	✓	Apply a suitable DUNLOP floor smoothing and levelling compound and leave to dry e.g. DUNLOP LX-360 FIBRE LEVELLER. The use of DUNLOP PROCOVER UNCOUPLING MAT maybe required. The heating must not be switched on for at least 2 weeks after completion of the grouting. Check with the manufacture of the undertile heating system. For advice, contact DUNLOP TECHNICAL HELPLINE.

For further advice or advice on any other situations not listed above, please contact DUNLOP TECHNICAL HELPLINE on 01782 591120

TECHNICAL DATA – CLF-03 FLEXIBLE LARGE FORMAT & NATURAL STONE ADHESIVE

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BACKGROUND

The surface to be tiled should be flat, clean and free from dust, grease or any other barriers to adhesion. Suitable surfaces include:

Concrete; cement:sand screeds	✓	Allow the following minimum drying times: Concrete – 6 weeks, Cement: sand screeds – 3 weeks,. If surface is porous or dusty- clean, then apply one coat of DUNLOP MULTI-PURPOSE PRIMER diluted 1:1 with clean water or DUNLOP SBR UNIVERSAL BONDING AGENT diluted 1:4 with clean water. Allow to dry.
Calcium Sulfate based screeds i.e. Anhydrite:	✓	Ensure the screed has been laid and prepared in accordance with the manufacturer's recommendations. Generally, they require sanding and have a moisture content of less than 0.5% (measured using the carbide method). Prime the screed with 2 coats of DUNLOP MULTI-PURPOSE PRIMER. The first coat diluted 1:1 by volume with water, second coat undiluted and at 90 degrees to the first coat. Allow to dry in between coats and the second coat should also be touch dry.
Existing unglazed ceramic tiles, quarry tiles and natural stone:	✓	Must be soundly bonded to a stable background that is sufficiently strong enough to support the weight of the new tiling. Surface must be clean, dry and dust/contamination free. Any surface sealers must be removed. Use an admix such as DUNLOP FLEXIBLE ADDITIVE diluted 1:1 by volume with water when tiling onto glazed tiles.
Asphalt:	✓	Must be of suitable internal flooring grade and be in sound condition with adequate cohesive strength. Maximum 6mm bed thickness.
Fibre reinforced cement boards, and tile backer boards (Floors only):	✓	Check suitability with the board manufacturer. Ensure boards are sufficiently rigid and stable and can carry the additional load without excessive deflection and has adequate ventilation underneath the boards (floors). If boards <10mm thick also use DUNLOP PROCOVER UNCOUPLING MAT. Some boards may require priming prior to tiling using a primer such as DUNLOP MULTI-PURPOSE PRIMER (1:1 dilution by volume).
Existing vinyl tiles: (Not cushion floor variety)	✓	Must be securely bonded to their backgrounds and free of polish, grease etc. Prime with undiluted DUNLOP SBR UNIVERSAL BONDING AGENT.
Plywood overlay - floors (min. 15mm):	✓	Must be sufficiently rigid and stable to receive tiles and has adequate ventilation underneath the timber. Overlay with exterior grade plywood, minimum 15mm thick, screwed at 300mm centres. Seal timber surfaces on back-face and edges with undiluted DUNLOP SBR UNIVERSAL BONDING AGENT. Prime surface to be tiled with undiluted DUNLOP SBR UNIVERSAL BONDING AGENT Allow to dry.
Underfloor heating:	✓	For further advice, contact DUNLOP TECHNICAL HELPLINE.
T&G Floorboards	✓	Ensure T&G boards are sufficiently rigid, free from deflection and securely fixed i.e. with suitable screws to joists/noggins at 300mm centres. Remove all varnishes, lacquers and other surface coatings incompatible with adhesion by sanding and leave a dust free surface. Prime the T&G boards with 2 coats of DUNLOP MULTI-PURPOSE PRIMER, undiluted applied at 90°between coats. Allow each coat to dry. Apply DUNLOP PROCOVER UNCOUPLING MAT as per the DUNLOP TECHNICAL DATA SHEET to the boards using a suitable DUNLOP tile adhesive e.g. DUNLOP CF-24 FLEXIBLE TILE ADHESIVE, DUNLOP CF-03 FLEXIBLE FAST SET ADHESIVE or DUNLOP CLF-03 FLEXIBLE LARGE FORMAT & NATURAL STONE ADHESIVE.

For further advice or advice on any other backgrounds not listed above, please contact DUNLOP TECHNICAL HELPLINE on 01782 591120

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TILE TYPE

Glazed - ceramic	✓	Cannot be generally used for external or heavy traffic floor areas
Unglazed - ceramic	✓	Normally used in commercial/industrial situations and more used for wet areas and external.
Porcelain	✓	Use only DUNLOP products with the Porcel Bond icon to install porcelain tiles. (note the choice of DUNLOP tile adhesive will also depend on the background to which the tiles are to be fixed.
Natural Stone – translucent / water sensitive including resin agglomerated stone)	✓	<p>Certain light coloured stone tiles may be susceptible to staining, please check the suitability of the natural stone with the tile adhesive before tiling commences.</p> <p>Use DUNLOP CLF-03 LARGE FORMAT AND NATURAL STONE ADHESIVE (WHITE)</p> <p>For resin agglomerated stone, use DUNLOP FLEXIBLE ADDITIVE diluted 1:1 by volume with water.</p> <p>Check with the manufacturer if the stone surface will require sealing before tiling or grouting.</p>
Natural Stone – non translucent	✓	Check with the manufacture if the stone will require sealing the face before tiling or grouting.
Mosaics - ceramic	✓	Supplied on sheets, mesh/paper or plastic. Follow manufacture instruction on installation (note it is better to stagger the sheets when fixing).
Mosaics - porcelain	✓	Supplied on sheets, mesh/paper or plastic. Follow manufacture instruction on installation (note it is better to stagger the sheets when fixing).
Mosaics – natural stone	✓	<p>Supplied on sheets, mesh/paper or plastic. Follow manufacture instruction on installation (note it is better to stagger the sheets when fixing).</p> <p>NOTE: If translucent – Use DUNLOP CLF-03 LARGE FORMAT AND NATURAL STONE ADHESIVE (WHITE)</p> <p>The sheets maybe required sealing before fixing, Check with the mosaic manufacturer or supplier.</p>

For further advice or advice on any other tile types not listed above, please contact DUNLOP TECHNICAL HELPLINE on 01782 591120

IN A NUTSHELL

DUNLOP CLF-03 FLEXIBLE LARGE FORMAT & NATURAL STONE ADHESIVE is a rapid-setting, pourable, thick-bed floor tile adhesive. Mixed with clean water, it is suitable for fixing large format ceramic floor tiles, fully vitrified including porcelain, natural stone, and terrazzo. Can also be used to build up uneven floors: before fixing tiles a layer of adhesive can be applied up to 25mm thick. Fixing at 3-25mm thickness makes it ideal for tiles/slabs of uneven thickness and uneven surfaces. The adhesive is water-resistant and can be used in interior & exterior areas including showers and swimming pool bases. Tiles can be grouted after 3 hours. DUNLOP CLF-03 FLEXIBLE LARGE FORMAT & NATURAL STONE ADHESIVE exceeds the requirements of BS EN12004 for a C2F tile adhesive.

MIXING

Mix in the ratio of approx. 3.5 parts powder to 1 part water by volume. This 20kg bag requires 4.0 (grey) – 4.2 (white) litres of cold clean water. Add the powder to clean water and mix thoroughly until a smooth, pourable consistency is obtained. Allow mixed adhesive to stand for 1-2 minutes before re-mixing for 30 seconds. Use within 30 minutes (Grey) and 60 minutes (White) (at room temperature). Do not use below 5°C. NOTE: If using an electric drill mixer, blend at slow speed (i.e. under 300rpm). If adhesive feels to be firming up before the 30minute (grey) or 60minute (white) pot life, you can re-mix - DO NOT add any more water. Note: Rapid setting adhesives will have a shorter working time and pot life during higher site temperatures i.e. in excess of 20°C and, conversely these will be extended in colder site temperatures. Temperatures on site should be at least 5°C and rising.

APPLICATION

1. Immediately after mixing, pour the mixed adhesive onto the floor and wait 2-3 minutes before troweling. Apply adhesive to floor surface, for standard size floor tiles a solid-bed trowel should be used. To ensure solid bedding of large format tiles use a suitable large format trowel. Always spread in one direction. DO NOT use "Dot and Dab" method.
2. Press tiles firmly into the adhesive checking periodically that good contact is maintained with the backs of the tiles. Back buttering of tiles may also be required. Tiles should be fixed within 15-20 minutes of adhesive being applied, depending on the porosity of the surface and the atmospheric conditions (check the adhesive ribs periodically and if a skin has formed, remove the adhesive and apply a new layer). Tiles can be adjusted up to 10 minutes after initial positioning.
3. Leave a minimum of 3mm joint between floor tiles.
4. Remove surplus adhesive from tiles and joints with a damp sponge/cloth before it sets.
5. Ensure adhesive is fully set before grouting. This will help avoid possible issues with grout finish' for example, efflorescence or patchy grout.

NOTES

This product is fully resistant to water, however, being cement-based it is not impervious to passage of water. To improve flexibility & adhesion use DUNLOP FLEXIBLE ADDITIVE (pre-diluted 1:1 by volume with clean cold water). When protecting water-sensitive backgrounds apply a tanking membrane to the background such as DUNLOP SHOWER WATERPROOFING KIT.

COVERAGE

Depending on the nature and flatness of the surface but on a level background the amount of adhesive required will be: at 5mm thickness approx. 8.75kg/m² at 10mm thickness approx. 17.5kg/m² at 25mm thickness approx. 43.75kg/m²

10 YEAR GUARANTEE

As a testament to the reliability and performance of our rigorous quality control procedures, all Dunlop products carry a 10-year guarantee. Subject to terms and conditions -see website for details www.dunloptrade.com

HEALTH & SAFETY INFORMATION

For detailed information on safety guidance, please refer to the Product Material Safety Data Sheet (available on request or via the Dunlop website www.dunloptrade.com)

DUNLOP TECHNICAL HELPLINE

For free expert guidance on the use of this product or any aspect of ceramic tiling telephone the DUNLOP TECHNICAL HELPLINE on: Tel: 01782 591120 Fax: 01782 591121.

Note: The customer must verify the suitability of any information, opinion, recommendation or advice ("Information") provided by the Company for the particular application for which any goods are intended to be used and the Company accepts no liability (whether in contract tort, or otherwise) whatsoever for any loss, damage, or expense arising from the misuse of any information it supplies nor for the use of any information in or for applications which are unsuitable or inappropriate. Building Adhesives Ltd operates a continuous research and development programme and reserves the right to alter or update information from time to time.