



C1F Rapid Grey

Grey Rapid Set Adhesive
for Natural Stone & Tiles, 20kg

1-15mm / **45 mins** / **3 hours**
Bed Thickness / **Open Time** / **Set Time**

- Natural Stone
- Ceramic / Porcelain / Mosaics
- Concrete
- Heated Screeds
- Swimming Pools / Wet Areas
- Internal / External

DESCRIPTION

ROCATEX C1F Rapid Grey is a rapid setting cementitious wall and floor tile adhesive for fixing natural stone and tiles including ceramics, porcelain and mosaics to a variety of substrates both internal and external.

SURFACE PREPARATION

Surfaces, including existing tiles, must be clean, firm, dry, free from dust, dirt, oil, grease and laitance, and strong enough to support the weight of the tiles and the adhesive.

All porous substrates should be primed with ROCATEX Acrylic Primer. Non porous substrates such as ceramics should be primed using a slurry coat of ROCATEX C1F Rapid Grey adhesive and ROCATEX Acrylic Primer. The slurry coat should be one part powder to one part liquid by volume. Apply thinly with a brush and allow to dry.

Anhydrite Floor Screeds - The substrate must not leach moisture. Anhydrite screeds must not have a moisture content greater than 0.5% or 75% relative humidity (RH). This can easily be tested with a hygrometer. Once the screed has dried it is essential that surface laitance is removed. This is achieved by scabbling, followed by vacuum cleaning to remove any dust, and then followed by 2-4 neat coats of ROCATEX Acrylic Primer.

Power Floated Concrete - Ensure surface is clean and free from loose matter. No priming is required, however, on very shiny surfaces, acid etching may be required. Substrate curing before tiling can commence is 6 weeks.

Concrete Screeds - Ensure surface is clean and free from loose matter and prime with two coats of ROCATEX Acrylic Primer diluted 1:1 with clean water. Substrate curing before tiling can commence is 6 weeks.

Sand & Cement Screeds - Ensure surface is clean and free from loose matter and prime with two coats of ROCATEX Acrylic Primer diluted 1:1 with clean water. Substrate curing before tiling can commence is 3 weeks.

Gypsum Plasters - The surface should be roughened up using a wire brush or other abrasive tool as this will remove the surface laitance. Then apply 2 neat coats of ROCATEX Acrylic Primer. Substrate curing before tiling can commence is 4 weeks.

Plaster Boards - Skimming is not required; ensure boards are dry, securely fixed and rigid. Prime with 2 coats of ROCATEX Acrylic Primer diluted 1:1 with clean water.

ROCATEX

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Existing Glazed & Unglazed Tiles, Terrazzo and Quarry Tiles - Apply slurry coat: 1 part adhesive to 1 part ROCATEX Acrylic Primer, apply a thin coat with a brush and allow to dry.

Cement Based Tile Backer Boards - Ensure boards are securely fixed and rigid and that the surface is clean and free from dust. Do NOT seal or prime the surface.

Wooden Floors - The surface should be prepared to provide a rigid and secure base without deflection and suitable to support the intended weight. Tongue and groove / chipboard must be over boarded with exterior grade plywood and given time to find equilibrium with its surroundings. Plywood boards must be 18mm thick and all joints must be supported. All must be screwed down at 300mm centres. The face, reverse and edges of the boards must be primed with ROCATEX Acrylic Primer diluted 1:1 with clean water, to prevent the ingress of ambient moisture. **When using C1F Rapid Grey on wooden floors, ROCATEX Flexible Additive should be used as a replacement for water during the mixing process.**

MIXING

Mix 20kg of ROCATEX C1F Rapid Grey adhesive in a clean mixing vessel with 4.2-4.4 litres of cold clean tap water until a smooth creamy consistency is achieved using a suitable drill with whisk attachment. Mix at a slow speed until a smooth, lump-free consistency is achieved.

APPLICATION

The mixed adhesive is applied to the prepared surface with a trowel and then combed through with a suitably sized notched trowel in straight ribs to create a ribbed adhesive bed. The tiles should be pressed into place with a twisting and sliding action to achieve full adhesive to tile transfer.

For tiling to walls in dry internal locations the adhesive contact should be at least 65% of the back of the tile. When tiling to floors and all external situations, or in wet areas such as showers and swimming pools, solid bed fixing should be achieved. To achieve a solid bed requires the tiles to be buttered immediately prior to placing into the ribbed bed so no voids are left beneath the tiles. The size of the notched trowel chosen depends on the size of the tile, the surface being tiled, the profile on the back of the tile and the degree of coverage area required. Remove and inspect a tile occasionally to check that adequate bedding is being achieved. Expansion joints must be provided according to the relevant Part of BS 5385. Test open time by touching the adhesive bed with a finger; if adhesive transfers to the finger a safe bond is assured, if not, the adhesive must be removed and replaced with fresh material. Never add water or powder to a mix that has begun to set. Do not apply at substrate temperatures below 5°C or in conditions of extreme heat. Exterior installations must be protected from direct sunlight, wind or rain.

GROUTING

Leave for a minimum of 3 hours before grouting and or walking on the tile. This time may be extended on impervious surfaces. If completing a swimming pool do not fill for at least 3 weeks after grouting.

COVERAGE

At 3mm bed thickness you will require 3.5kg of product per m².

STORAGE

Store unopened in a cool dry, frost free environment.

TECHNICAL DATA

Conformity:	Conforms to the requirements of BS EN 12004 C1F
Tensile strength:	24 hrs >0.5N/mm ²
Application temperature:	5°C to 25°C
Service temperature range:	-20°C to +80°C
Bed thickness:	1-15mm
Mixing ratio:	4.2 - 4.4 litres of clean tap water to 20kg powder
Open time:	45 mins at 20°C
Set time:	3 hrs at 20°C
Ready for grouting:	3 hrs at 20°C
Fully load bearing:	24 hrs at 20°C
Shelf life:	12 months in cool dry area
Sizes:	20kg
Storage:	Store unopened in cool dry conditions

Note: All times refer to site conditions of 20°C. These times will be increased at lower temperatures and reduced at elevated temperatures. DO NOT apply if frost is forecast within 24 hours, in wet conditions, in temperatures below 5°C or above 25°C, to areas in direct sunlight or to substrates that are hot.

CE		
Rocatex Ltd, Units 3+4 Camwal Park, Camwal Road, Harrogate, HG1 4PT, UK 13 DoP No. 004 EN 12004		
Essential Characteristics	Performance	Harmonised Technical Specification
Early tensile adhesion strength after not more than 6h (declared)	≥ 0,5 N/mm ²	
Initial tensile adhesion strength (declared)	≥ 0,5 N/mm ²	
Tensile adhesion strength after heat ageing (declared)	≥ 0,5 N/mm ²	
Tensile adhesion strength after water immersion (declared)	≥ 0,5 N/mm ²	EN 12004:2007
Tensile adhesion strength after freeze/thaw cycles (declared)	≥ 0,5 N/mm ²	
Open time: tensile adhesion strength after not more than 10 min (declared)	≥ 0,5 N/mm ²	
Reaction to fire (class)	A1	

HEALTH & SAFETY INSTRUCTIONS



Health & safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement. Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before re-use. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children.

For further information, please request the Material Safety Data Sheet for this product.

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