

High Strength, non-flow, epoxy bedding and repair mortar

DESCRIPTION

Rayston Brace CF is a moisture tolerant, thixotropic, structural 2 component adhesive and repair mortar, based on epoxy resins and special fillers for use at higher temperatures between +25 °C and +45 °C.

USES

As a structural adhesive and mortar for:

- Fixing of steel rebars.
- Concrete elements
- Hard natural stone
- Ceramics, fiber cement
- Mortar, Bricks, Masonry
- Steel, Iron, Aluminum
- Wood
- Polyester, Epoxy
- Glass

As a fast-setting rapid repair adhesive and mortar:

- Corners and edges
- Holes and void filling
- For vertical and overhead use

Joint filling and crack sealing:

- Joint arris repair and crack sealing

CHARACTERISTICS / ADVANTAGES

Rayston Brace CF has the following advantages:

- Easy to mix and apply
- Very good adhesion to most construction materials
- High strength adhesive
- Thixotropic: non-sag in vertical and overhead applications
- Hardens without shrinkage
- Different coloured components (for mixing control)
- No primer needed
- High initial and ultimate mechanical strength
- Good abrasion resistance
- Impermeable to liquids and water vapour
- Good chemical resistance

PRODUCT INFORMATION

Chemical Base	Epoxy resin
Packaging	1 kg and 5kg units (A+B).
Colour	Component A: grey Component B: black Components A+B mixed: concrete grey
Shelf Life	24 months from date of production
Storage Conditions	Store in original, unopened, sealed and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight.
Density	All types: Comp. (A): 1.65 kg/l Comp. (B): 1.65 kg/l

TECHNICAL INFORMATION

Compressive Strength

After 10 days at +10-20°C 50-60 N/mm²

Tensile Strength in Flexure

after 10 days at +10- 20°C 30 - 40 N/mm²

Tensile Strength

after 10 days at +10- 20°C > 20 N/mm²

Modulus of Elasticity in Tension

4'300 N/mm² (Static)

Shear Strength

after 10 days at +10- 20°C

Bond strength to concrete >2 mm²

Bond strength to steel >3 N/mm²

Coefficient of Thermal Expansion

50 x 10⁻⁶ per °C (temp. range: -20 °C to +40 °C)

APPLICATION INFORMATION

Mixing Ratio Component A: component B = 2: 1 by weight

Pot Life	°C	Normal Type
	40	-
	30	20 min.
	20	40 min.
	10	90 min.
	5	-

APPLICATION INSTRUCTIONS

- All surfaces must be clean, free from frost, standing water and all loosely adhering particles. Cement laitance must be removed.
- Concrete must be at least 3 - 6 weeks old, depending on climate, wire-brush, sand-or water-blasted or grind substrates.

MIXING

- Mix components (A+B) together for at least 2 minutes with a mixing paddle attached to a slow speed electric drill (max. 600 R.P.M.) until the material becomes smooth in consistency and even grey colour of the mixture is obtained.
- Material in industrial packing must be stirred well before proportioning and mixing.
- Avoid aeration while mixing.

APPLICATION METHOD / TOOLS

1. When using a thin film adhesive, apply the mixed adhesive to the surfaces with a trowel, spatula or by glove-protected hand.
2. When applying as a repair mortar, take into account any form work that may be required.
3. On vertical surfaces it is non-sag up to 10 mm thickness.
4. On damp surfaces, ensure that the material is well rubbed in.
5. Max. layer thickness: 30 mm. required.

CLEANING OF TOOLS

Clean all tools and equipment immediately after use with Colma-Cleaner.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

- **Ecology** In liquid state components (A+B) contaminate water. Do not dispose of into water or soil but according to local regulations.
- **Transport Comp.** A: Non-hazardous. Comp. B: All types: 8/65 c).
- **Safety Precautions** Product may cause skin irritations. Wear gloves and goggles. If the material is accidentally splashed into the eyes, flush immediately with plenty of warm water and seek medical attention without delay.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Rayston products, are given in good faith based on Rayston current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Rayston recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.