

CONCRESE

® 2200

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

Description

CONCRESE 2200, is a non slumping epoxy bedding compound and adhesive. It is a two pack, fine aggregate filled, fast curing material, ideal for a variety of bedding, gap filling and concrete repair applications.

CONCRESE 2200 is a stiff but easily workable compound that can be applied by either trowel, spatula or knife. It cures to give high mechanical properties typical of epoxy compounds. It is resistant to oils, greases, petroleum, salts, many acids and alkalis and most commonly met corrosive media. It does not shrink on curing, and is designed to be used when cured from below freezing point to 60°C. Its impact resistance, and mechanical strength is greater than that of concrete.

Primary uses

For surface repairs of fine cracks and spalls.
For gap filling, grouting, bedding fixtures etc.
For repairs to arrisses without the use of form work. Wherever a thixotropic epoxy mortar is required.

Typical applications

- Bedding bridge beams or steel bridge bearings.

- Repairing surface defects or to honeycombing concrete in horizontal, vertical or overhead situations.
- Fixing slip bricks to concrete.
- Securing bolts into walls.
- Dowel bars anchoring.
- As a gap filling adhesive.
- Filling bolt pockets.
- Bedding tiles.
- Repairing concrete posts in-situ.
- Fixing of surface ports for crack injection.

Advantages

- High strength.
- Non-slump.
- Strong adhesion.
- Impact resistant
- Chemical resistant.
- Non shrink.
- Epoxy based.
- Trowels to a smooth finish.
- Easy to use.
- Supplied in pre-weighted units.
- No bonding agent or primer required.

Packaging

CONCRESE 2200 is available in 3kg units.

Composition

Two-component epoxy-based mortar filled with selected fine aggregate.

Typical properties*

* Properties listed are only for guidance and are not a guarantee of performance.

Colour:	Cement grey
Mixed density:	1700 Kg/m ³ at 25°C
Flashpoint:	N/A
Compressive strength to ASTM D695:	60 N/mm ² at 7 days
Bond strength:	Greater than that of the concrete.
Pot life:	at 25°C : 1 hour 45 minutes at 40°C : 45 minutes
Tack free time:	at 25°C : 7 hours at 40°C : 2 hours 15 minutes
Full cure:	at 25°C : 5 days at 40°C : 3 days

Standards

ASTM C881 : Type 1, Grade 3 Classes B & C.

Chemical resistance

CONCRESE 2200 has excellent resistance to the following: most aqueous systems, sewage, urine, fresh water, sea water, diluted and concentrated alkalis, diluted acids, sulphur gases, mineral, vegetable and animal oils and fats, ammonia and formaldehyde.

Application procedure

Preparation:

All loose particles, laitance, dust and grease etc., must be removed prior to application of CONCRESE 2200.

Mixing:

The 3kg pack has been designed to be readily mixed by trowel. Where more than one pack is to be mixed at a time, a Mixal portable mixer (HD5 model) is suitable.

Application:

Knife or trowel CONCRESE 2200 to the required level using the minimum of solvent on the trowel to aid workability. The surface may be finished smooth by use of a paint brush dipped in CLEANING SOLVENT NO. 2. Where a very deep recess is to be filled, it may be necessary to build up in layers. Repairs may be camouflaged if required by covering surface with cement powder before full cure is affected.

Working temperature :

CONCRESE 2200 will cure at temperatures as low as 0°C, although at low temperatures cure is retarded.

Coverage

3kg is sufficient to cover 1.1 m² at 1.5mm thickness.

Equipment care

Clean with CLEANING SOLVENT NO. 2 immediately after use.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. For further information refer to the material safety data sheet.

Storage

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air conditioned environment.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Degussa's Technical Services Department.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Degussa representative.

Degussa reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality

All products produced by Degussa certified manufacturing facilities, are produced to conform to systems designed to meet internationally recognised quality standards.

06/2005 Degussa-IR