

SUPERCRETE

High Strength Polyester Based Bonding and Repair Compound

Description of Product

A two-component polyester resin compound consisting of a liquid resin and a powder hardener which can be mixed in varying ratios to achieve varied consistency to accommodate a wide variety of applications.

Fields of Application

The areas of use for this product are many and varied. A number of the more popular applications are given below:

- Bedding and location of coping kerbstones etc.
- Small patch repairs to concrete beams, posts, lintels, precast units
- Re-profiling of arises
- Bedding of concrete units, steelwork, road furniture etc.
- Grouting of dowel pins, bolts, etc.
- Bedding and fixing of slip bricks, cladding etc.
- Rapid fixing of post railings, balustrades, etc.

Features and Benefits

- Extremely versatile in many applications
- Simple to batch and mix
- Variable mix consistency
- Excellent adhesion to most construction materials
- Good chemical resistance
- High, early and ultimate strengths
- Will cure in damp conditions and at low temperatures

Technical Data/Typical Properties

Appearance	Green/Grey. Final colour will vary dependent on mix ratio used.				
Density	1920 Kg/m ³				
Strength as tabulated below (results are based on normal 3.2 to 1 mix by volume)					
Strength Property	Temp. °C	Strengths in N/mm ²			
		1 hr	3 hrs	24 hrs	Ultimate
Compressive (BS6319:Pt2)	35	35		99	99
	20		33	78	99
Tensile (BS6319:Pt3)	35	4.3		14	14
	20		7.3	11.7	14
Flexural (BS6319:Pt7)	35	11		37	37
	20		16	31	37

At lower temperatures, strength gain is correspondingly slower.

Setting Times	
15°C	2 hours
20°C	1 hour
25°C	30 minutes
35°C	17 minutes
At lower temperatures setting will be slower.	
Adhesion to Sound Concrete	In excess of the tensile strength of concrete.
Adhesion to Shot Blasted Steel	9 N/mm ²



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Application Procedure

Preparation of Substrate

Ensure that all surfaces to which SUPERCRETE is to bond are free from oil, grease, paint, curing compounds etc. Remove any dust, laitance or loose friable materials. It is preferable that any smooth surfaces are roughened prior to application.

Mixing

It is possible to mix SUPERCRETE to application consistency ranges from a free flowing pourable grout to a heavy bodied mortar.

Mixes will normally range from a resin rich 2:1 powder to resin giving a product of a flowable consistency. Up to 4:1 powder to resin will produce a trowellable mortar.

The required quantity of resin component should be poured into a clean plastic bucket and the powder added slowly stirring until the desired consistency is achieved and the mixture is smooth, lump free and uniform in colour.

Do not mix more material than can be used within 20 minutes. Use of a mixing paddle and slow speed drill will greatly aid the mixing process.

Application

SUPERCRETE should not be applied in layers greater than 20 mm. Where thickness is in excess of 20mm consult your BASF Construction Chemicals (UK) Technical Services Department. Application of SUPERCRETE in a mortar consistency is normally carried out using a steel float or trowel. A smear of Cleaning Solvent applied to the face of the trowel will aid application ensuring that SUPERCRETE is trowelled well into the prepared surface ensuring good contact and adhesion.

Minimum application thickness will depend on location and substrate. However, a general guide is up to 20 mm on horizontal surfaces and up to 12 mm on vertical surfaces and 4 - 6 mm on overhead and soffit work.

When SUPERCRETE is used in a flowable/pourable consistency it is important that the product is allowed to settle and level in the hole or pocket. The product should be placed as soon as possible after mixing.

Coverage

1 kilo of SUPERCRETE mixed at a ratio of 2 part powder: 1 part resin will yield approximately 0.37 litres.

1 kilo of SUPERCRETE mixed at a ratio of 4 parts powder:1 part resin will yield approximately 0.5 litres.

Cleaning

All tools and equipment can be cleaned using Feb Cleaning Solvent prior to the material hardening.

Packaging

SUPERCRETE is available in 3 Kg and 15 Kg units.

Each unit contains sufficient resin and powder for general use.

Extra resin component is available separately in 5 litre units.

Storage

Store in dry conditions at moderate temperatures away from direct sunlight.

Shelf Life

1 year when stored in unopened containers in accordance to manufacturers recommendations.

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SUPERCRETE BASF Construction Chemicals (UK) Ltd Version 9 – January 2009

Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer:

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