



# New Guard Coatings Group

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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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# TUFPATCH F.S.

## Fast Setting Heavy Duty Epoxy Patching and Bedding Mortar

### DESCRIPTION

**Tufpatch F.S.** is a three component, high strength epoxy resin patching and bedding mortar providing a rapid repair or bedding medium.

### AREAS OF USE

- Patch repair to Concrete Floors
- Repairing the broken aris to steps and slabs
- Bedding of kerbs and concrete pre-cast units
- General bedding of manhole frames, copings , machinery, etc
- Topping to spalled concrete
- Levelling of uneven industrial floors

### ADVANTAGES

- Excellent bond to substrates
- Trowels to a smooth finish
- High resistance to abrasion
- Can be used internally or externally
- Many times stronger and more durable than concrete
- Good chemical resistance
- Rapid strength gain
- Can be laid to a feather edge.

### APPLICATION

#### Preparation:

Good surface preparation is essential. All surfaces should be dry, clean, sound and free from dust. **Tufpatch F.S.** may be laid to a feather edge, however whenever possible, feather edging should be avoided by saw cutting around the perimeter edge especially in areas of high wear or impact. In bedding applications a minimum finished bed depth of 5 mm is recommended

#### Priming:

On sound horizontal surfaces **Tufpatch F.S.** would not normally require a primer. On substrates which are extremely porous or friable contact your local BCR Distributor or BCR Technical Department for specific advise.

#### Mixing:

Add the complete contents of the liquid hardener component into the base resin using the outer bucket as the mixing vessel in the smaller 5 Kg or a suitable mixer drum for the 20 kg. pack. Slowly add the filler component to the mixed base and hardener. Mixing should be carried out using a slow speed drill and paddle or a suitable forced action mixer for the larger pack . Thorough mixing should continue for approx. 5 minutes paying particular attention to the sides and bottom of the bucket or mixing drum. The finished mix should be lump free.

#### Placement:

The mixed mortar should be applied to the prepared surface by trowel ensuring the mortar is pressed well into the substrate and compacted into place. If **Tufpatch F.S.** is to be used as a bedding medium it should initially be applied approximately 4-6mm thicker than the final bed thickness and the element to be bedded should be worked into the applies bed until the desired level is achieved. Finishing can be aided by wiping the surface of a steel trowel with a solvent. **Tufpatch F.S.** can be applied at thickness from feather edge to 25 mm. A temporary edge shutter may be required in some applications.

#### Cleaning Tools:

Immediately after use all tools and mixing equipment must be cleaned using BCR cleaning solvent or Xylene.

## COVERAGE

A 20kg pack will cover approximately 2.0m<sup>2</sup> at a thickness of 5 mm.

## PACKAGING

5 kg and 20 kg Packs

## TECHNICAL DATA

### Colour

Dark Grey

### Density

2000 Kg/m<sup>3</sup>

### Service Temp. Limits

-20°C to 50°C

### Curing Temperatures

Over 5°C

### Compressive Strength (BS6319:Pt2)

87N/mm<sup>2</sup> @ 3 days (20°C)

85N/mm<sup>2</sup> @ 3days (10°C)

80N/mm<sup>2</sup> @ 24 hrs (20°C)

55N/mm<sup>2</sup> @ 24 hrs (10°C)

50N/mm<sup>2</sup> @ 6 hrs (20°C)

10N/mm<sup>2</sup> @ 6 hrs (10°C)

### Abrasion Resistance

High

### Adhesive Strength to concrete

Greater than the internal tensile strength of concrete

### Pot Life

30 mins @ 20°C

60 mins @ 10°C

**N.B. Tufpatch** is not suitable for areas involving foodstuffs or where there is a possibility of tainting. Refer to BCR technical department for advice.

## STORAGE

Store in a cool dry place between 5°C-25°C

## HEALTH & SAFETY

For full information on Health and Safety relating to this product refer to the Health and Safety data sheet.

The following general comments apply:

As with all chemical products care should be taken in use to avoid contact with eyes, mouth and skin, care should be taken to protect foodstuffs from contamination either by contact or by vapour during application and curing.

If accidentally ingested seek medical attention. Keep away from children and animals. Store in sealed containers.

Resin products can cause irritation, dermatitis or allergic reaction.

Use protective equipment.

Use in well ventilated areas.

