

### Description

Centrecoat Armourcoat Epoxy Joint Compound is a thixotropic, two part, polyurethane modified epoxy joint filling compound. Provides good chemical resistance and durability together with a degree of flexibility. Formulated to create joints and seals with low movement accommodation in vertical situations.

Centrecoat Armourcoat Epoxy Joint Compound is suitable for filling saw cut day work and low movement joints in concrete. Suitable for medium to heavy industrial use.

For joints up to 10mm wide, a 1:1 width to depth ratio is recommended. For joints greater than 10mm wide, up to 2:1 width to depth ratio can be used with a minimum depth of 10mm. When filling joints, the surface of the joint filler should be brought to just below the surface of the final finish. This is so passing traffic does not abrade the surface of the seal. If the seal is brought flush, this will provide a smooth transfer from section to section but may result in some accumulating damage to the surface with time.

### Suitable Substrates

Centrecoat Armourcoat Epoxy Joint Compound will adhere well to a range of surfaces such as concrete, granolithic screeds, epoxy, polyurethane and polymer modified floor and wall finishes. Significant concrete shrinkage will take place in the first 28 days and sealing should not commence before this period. It is recommended that joints are left until the final stages of construction when temperatures have stabilised & initial concrete shrinkage has taken place.

### Appearance

Available in a range of standard colours. Special colours available on request. Provides a smooth tooled finish.

### Preparation

When re-sealing old joints, all existing sealant should be removed and the arris prepared back to sound concrete. All dust and debris should be removed from saw-cut joints by vacuum. The joint surfaces must be clean, dry and dust free. All contamination should be removed by wire brushing, grinding or shot blasting.

A closed cell polyethylene foam backing rod should be used that are accurately placed, well compacted and should not be stretched on installation as this can result in gaps developing under the seal. Where a neat finish is required, mask the top face of the edges of the joint before priming and sealing. Remove immediately after tooling is completed.

### Priming

Apply [Centrecoat Armourcoat 3-350 Primer](#) to the walls of the joint using a clean, dry brush. Avoid applying too much causing puddles in the bottom of the joint. Ensure that a bond breaker or closed cell polyethylene backing strip is installed to the base of the joint after the primer has cured and prior to use of the Epoxy Joint Compound. This strip must fill the based of the channel.

### Mixing

Prior to mixing, the temperature of the 3 components must be between 10 - 30C. Add the hardener component to the coloured resin component and mix using a low speed electric mixer (300/400 rpm) for at least 2 minutes until homogeneous. Keep the mixing paddle fully submerged to avoid entrapment of air. Scrape sides and bottom of the vessel several times. Decant the mixed material to a second mixing vessel. Mix as above for a further minute. Do not mix at high speed as this will result in air entrapment.

### Application

Pour the mixed material into the joint to the level required and tool to the desired finish. After a few minutes it may be necessary to top up the level after it has flowed into the joint irregularities.

### Technical Data

Thickness: Suitable for application in 6 - 20 mm wide joints that are trafficked. Suitable for up to 40 mm width in non trafficked joints. Although virtually solvent free, large volumes of the product will generate heat during curing and some contraction and/or slumping may occur as a direct consequence.

- ▶ Pot Life: 50 minutes at 20°C
- ▶ Recommended Application Temperature: 5 - 30°C
- ▶ Initial Cure (Traffic Ready): 24 hours at 20°C / 48 hours at 10°C
- ▶ Full Cure (Full Chemical Resistance): 7 days at 20°C
- ▶ Movement Accommodation Factor: 10%
- ▶ Shore A Hardness: 55 - 65
- ▶ Density (Varies slightly with colour): 1g/cm<sup>3</sup>

The above times are a guide only. These times can vary due to prevailing site conditions. The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary dependent upon site conditions.

### Coverage Rate

The amount of product required can be calculated as follows:

$$\frac{\text{Length in metres} \times \text{Depth in mm} \times \text{Width in mm}}{1000}$$

For example: (10m x 10mm x 20mm) / 1000 = 2 Kg. Allowances of at least 5% should be made for wastage.

### Shelf Life

12 months if stored in accordance with the above recommendations.

### Storage

Materials should be kept dry and stored in a weatherproof building maintained at 15 - 25°C on pallets and away from walls. Consignments should be used in order of batch number. Protect from frost.

### Packaging

Available in 1 Kg, 2.5 Kg and 5 Kg

### Limitations

Centrecoat Armourcoat Epoxy Joint Compound is formulated to be used as a low movement joint filler for trafficked areas, It is not designed to accommodate high frequency movement or for high movement accommodation joints which require lower modulus materials. If the movement of the joint exceeds that capability of the product, mechanical failure will occur. If the cohesive strength of the sealant exceeds that of the substrate, substrate failure will occur.

Joint sealants should not be over painted as any movement may cause the coating to crack and may lead to premature cohesive failure of the sealant. During the curing process, the surface of the sealant may retain a degree of surface tack which can accumulate dust. This will wear off the surface with time and usage.



# PRODUCT DATA SHEET

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Do not proceed with application if atmospheric relative humidity is, or is anticipated to be >75% or if the surface temperature is <3°C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be <10°C during the application or within the curing period.

The manufacture of Centrecoat Armourcoat Epoxy Joint Compound is a batch process and despite close manufacturing tolerances, minor variations in shade may occur between batches. Products from different batches should not be used on the same surface or surfaces close together, If mixed batches are unavoidable, it is best practice to use the different batches only in areas where the colour cannot be directly compared.