

Description

Centrecoat Armourcoat 3-350 is a two-component 100% solids epoxy floor coating offering excellent abrasion and chemical resistance. Centrecoat Armourcoat 3-350 provides a tough, hard wearing coating for medium duty traffic giving high film build and wear resistance.

For medium duty areas requiring an easy to clean, tough and durable coating with excellent chemical resistance such as warehouses, factories, workshops, showrooms, packing and storage areas. Can also be used as a seal coat for broadcast systems such as intermediate car park decks. Armourcoat 3-350 is suitable for regular foot traffic, light duty fork lift truck traffic and occasional hard plastic-wheeled trolleys.

Suitable for concrete and polymer modified cementitious screeds.

Features

- ▶ Protects concrete from oil and chemical spillages
- ▶ High build with excellent wear resistance
- ▶ 100% solids
- ▶ Easy application - no need for solvent/thinners
- ▶ Gloss, easy to clean finish
- ▶ Non-dusting
- ▶ Slip-resistant options available
- ▶ Nonyl phenol free - reduced hazard

Colour & Finish

Gloss finish in a range of standard colours.

Centrecoat Armourcoat 3-350 is not 100% colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This will be more pronounced with lighter colours and does not compromise the product's performance or chemical resistance characteristics.

Application / Substrate Conditions

Substrate and ambient temperature should be in the range of 10°C to 25°C. Localised heating or cooling equipment may be required outside this range to achieve ideal temperature conditions. For heating, use only electric powered systems. Fossil fuel powered heaters emit undesirable amounts of water vapour and CO₂. The maximum air relative humidity is 80%. To reduce the risk of "blooming" caused by condensation, the climate above the uncured floor should be maintained at least 3°C above the dew point for at least 48 hours after application.

Concrete substrates must have a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm² and be dry ($\leq 4\%$ by weight), clean and free of surface laitance and contaminants such as dirt, dust, loose material, oil, grease, poorly bonded coatings and surface treatments. Concrete must include a functional damp-proof membrane and be free of rising moisture.

Preparation

Inadequate preparation will lead to loss of adhesion and failure. In coatings, there is a tendency for the finish to mirror imperfections in the substrate. Grinding, or light vacuum-contained shot-blasting is therefore preferred over planning for these systems.

Weak concrete must be removed and voids filled with a suitable repair material. High spots must be removed e.g. by grinding. Excessively porous concrete should be primed using Armourcoat 3-350. If in doubt, apply a test area first.

Mixing

Materials should be stored at 15°C to 25°C for a minimum of 8 hours prior to use. Mechanically pre-mix the coloured resin component before use. Add the hardener component to the coloured resin component and mix using a low speed electric mixer (300 - 500 rpm) for at least 3 minutes until homogeneous. Use a spatula to scrape the sides and bottom of the mixing vessel several times during mixing, as unmixed material will result in uncured patches in the final finish. Pouring the mixed material into a second mixing container and mixing again will greatly reduce the possibility of soft spots. Do not add solvent/thinners to the product.

Application

Best results are obtained in warm conditions (minimum 15°C). Apply with a short pile roller working well into the surface taking care not to exceed the coverage rate. Edges and difficult to reach areas may be applied thinly by brush. The second coat should be applied at right angles to the first. An anti-slip finish may be achieved by fully sprinkling the first coat with kiln dried silica sand at 3 - 4 kg/m².

Allow the first coat to fully cure (24 hours at 15°C or longer in colder temperatures) then remove all excess sand with a stiff broom and vacuum. Apply a second coat to encapsulate the grains, using a squeegee followed by back-rolling with a short pile roller.

Technical Data

- ▶ DFT: 350 microns from 2 coats
- ▶ BS 8204-6: Type 3
- ▶ Adhesion to concrete (BS EN 12504-2): >1.5 MPa
- ▶ Pot Life: 25 minutes at 20°C
- ▶ VOC: 140 g/l
- ▶ Overcoatable: 16 - 36 hours at 20°C
- ▶ Foot Traffic Ready: 24 hours at 20°C
- ▶ Light Wheeled Traffic Ready: 4 days at 20°C
- ▶ Full Chemical Resistance: 24 hours at 20°C
- ▶ The floor should be protected from contact with water for at least 7 days.

These cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions. At lower temperatures curing times will be extended. At higher temperatures the working life will be reduced. If the over coating interval of 36hrs is extended, the first coat should be lightly abraded to ensure intercoat adhesion.

Coverage Rate

0.25 kg/m² per coat.

Coverage rate will depend on surface profile and aggregate selected but will be significantly greater than for the first coat. As a guide:

Sand Grading	Maximum Area	Achievable PTV (BS 7976-2)	
mm	m ² / kg	Dry	Wet
0.3 - 0.6	2.5	≥40	≥40
0.7 - 1.2	1.5	≥55	≥55

Coverage will vary depending on the texture and porosity of the substrate, film thickness and application technique. Two coats are normally sufficient but on very porous substrates, an initial coat of Armourcoat 3-350 should be applied.

Note: These coverage figures are approximate as silica sand grading can vary widely as can site conditions. If in doubt, order extra material to account for wastage or install a test area to assess coverage prior to starting work. The pendulum test values given above are derived from testing in a controlled laboratory environment and are given for guidance only. Results derived from testing field-applied samples may vary dependent upon site conditions and application technique. Slip resistance can reduce over time due to poor maintenance, general wear or surface contaminants. Good housekeeping practices should be observed.

Clean Up

Tools and equipment should be cleaned whilst the resin is still wet using [Centrecoat Armourcoat Thinner I](#).

Maintenance

Armourcoat 3-350 can be easily cleaned using industry standard cleaning chemicals and techniques designed for epoxy resin flooring. Test cleaning agents prior to use in a small area. Do not steam clean or subject to temperatures in excess of 50°C. Spillages must be removed immediately.

Storage

Materials should be stored in their original, unopened containers in a dry weatherproof building maintained at 10°C to 30°C on pallets and away from walls. Consignments should be used in order of batch number. Protect from frost.

Shelf Life

12 months if stored in accordance with the above recommendations.

Packaging

Available in 5 Kg

Limitations

Remove food products from the area during application and curing. As with all high gloss paint finishes, scratching of the surface may occur with use due to surface contamination and abrasion. In common with all smooth floor finishes, Armourcoat 3-350 may become slippery under certain conditions. In areas of chemical spillage, please consult our Technical Department for specific advice.

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 Armourcoat 3-350 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.

Before using this product, please ensure that you have received and read the product Safety Data Sheet. Refer to hazard labelling on the product. Wear gloves and avoid contact with skin and eyes.

For further information on this or any other Centrecoat product, please contact our office.