



Technical Data Sheet

QUICKMAST 401

Solvent Free, Epoxy Protective and Decorative Coating

A thixotropic protective coating for concrete and steel surfaces

Advantages

- * Solvent free
- * Low odour, taint free
- * Ease of application
- * Very good chemical resistance
- * Good mechanical properties
- * Abrasion resistant
- * Excellent adhesion to concrete and steel
- * Available in various colours

Product:

Two part epoxy resin based, high-build, solvent free, protective coating for concrete and steelwork. Semi-gloss finish.

Purpose:

Hard wearing, hygienic, chemical resistant and taint free coating, suitable for contact with foodstuffs. Suitable for floors, walls and ceilings.

Usage:

For typical fair faced concrete 5 kg pack is sufficient for treating approx. 10 sq.m. with the recommended two coat treatment. This will give an overall dry film thickness of 400 – 450 microns.

Pack:

5 kg

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Description

QUICKMAST 401 Protective Coating is a solvent-free, Epoxy resin-based system, formulated to allow ease of application to both floors and walls.

The cured film is extremely tough, and has a smooth, hard, semi-gloss surface with good slip release properties.

QUICKMAST 401 has excellent adhesion to concrete and metal surfaces. It can be used to line drinking water reservoirs, and in food processing areas, since after curing, it is laint-free.

Properties

Colour Light Grey, Pale blue, white
(Special shade on request)

Pot life 45 – 50 mins. at 30°C

Curing time:

Touch dry 5 hours at 30°C

Hard dry 10 hours at 30°C

Full chemical resistance 5 days at 30°C

Tensile strength 25 Mpa

Extensibility 3.9%

Flexural strength 36 Mpa

Temperature range:

During application ... 5°C to 40°C

In service - 10°C to 50°C

Chemical resistance

Resistant to long term immersion in water, petrol, oil, dilute acids, and dilute alkalies.

For advice on resistance to specific chemicals please consult our Technical Department.

Where to use

QUICKMAST 401 Protective Coating provides a tough, hygienic, chemical resistant coating for walls, floors and ducts in dairies, abattoirs, sewers, food processing areas, etc. It is particularly suitable for lining concrete water reservoirs since it is taint – free.

How to use

Preparation

Surface should be sound and level. Blow-holes and surface defects can be made good with

Health and Safety

Cleanliness in handling Epoxy resins is essential to prevent skin irritation. Please refer to the QUICKMAST SAFE HANDLING GUIDE for detailed recommendations.

Shelf Life

Shelf life is 6 months when stored in manufacturer's undamaged sealed containers under dry conditions, and out of direct sun light.

QUICKMAST 348 Epoxy Putty, to facilitate the application of a uniform continuous coating.

Priming

QUICKMAST 401 Protective Coating has excellent adhesion to concrete, and priming is not normally necessary, if the substrate is exceptionally porous a priming coat of QUICKMAST 173 Sealer is recommended, applied at a rate of 5 sq.m. / litre.

Mixing

QUICKMAST 401 Protective Coating comprises two components, the resin BASE and the HARDENER, which are supplied pre-weighed in the correct proportions. When required for application the HARDENER should be poured into the can containing the BASE and drained well. The two components should be thoroughly mixed using a mechanical stirrer, e.g., electric drill with paddle attachment, until the material is uniform in colour and free from streakiness.

Application

The mixed QUICKMAST 401 should be applied by brush, roller on to give a continuous film on the prepared surface. The second coat should be applied in similar fashion on the following day.

Coverage rates

The covering capacity of the coating will vary depending upon the porosity and texture of the surface, but as a general guide 10 sq.m./5 kg pack per two coat should be allowed. This will give a final coating thickness of 0.40 – 0.45 mm (400 – 450 microns).

Cleaning

Equipment should be cleaned with QUICKMAST SOLVENT immediately after use.

Commissioning

At ambient temperatures of 25°C or more, QUICKMAST 401 will have hardened sufficiently in one day to allow light traffic, but full abrasion and chemical resistance will be achieved only after 5 days cure. When used in water supply systems the coating should be washed down and allowed to remain in contact with water for 24 hours. This water should then be discarded and the coating brought into service.

How to specify

All surfaces (as indicated) shall be prepared and coated with two applications of QUICKMAST 401 Protective Coating to be used strictly in accordance with the instructions of the manufacturer, Don Construction Chemicals India Ltd.

The information given in this data sheet on both current development work and many years field experience. Whilst every effort is made to ensure that the information is reliable. We cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc.

In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up to date publication. All products are sold subject to our standard conditions of sale which are available on request.

Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local DON representative.