



Tested in accordance with IMO standards and approved for use in marine floor applications by DNV.

TECHNICAL DATA SHEET
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FILDEK 405

FLEXIBLE EPOXY PROTECTIVE COATING

PRODUCT FEATURES

Fildek 405 is a two-pack, solvent free, high build epoxy coating formulated for easy application by brush or roller to concrete, screeds and steel.

Fildek 405 is resistant to weathering providing a tough, waterproof membrane with crack bridging properties.

Fildek 405 produces an aesthetically attractive finish and is supplied in a variety of colours (consult our Sales Department for further details). Typical areas of use include decks, workshops, oilskin lockers, storage areas, walkways, sewage treatment works, tank bund walls, etc.

Fildek 405 has excellent resistance towards many of the chemicals commonly found in the marine and industrial environment (consult our Technical Department for further details).

Slip resistant finishes can be produced for very demanding situations.

KIT FORM

5Kg

SPECIFIED COATING THICKNESS

Approximately 250-300 microns/coat

COVERAGE

Approximately 2m²/ Kg / coat at the specified coating thickness.

Important: This coverage figure is based on application to a smooth dense surface. Coverage figures will vary according to the texture, porosity and evenness of the surface on which the Fildek 405 is being applied.

STORAGE

Store at temperatures between 5°C and 30°C.

SHELF LIFE

Approximately 24 months if stored in unopened containers and under good conditions.

TECHNICAL DATA

Tensile Strength (BS6319:part7)	23MPa
Elongation at break (BS6139:part7)	65%
Abrasion Resistance loss/1000 cycles	40mg
Water vapour permeability	1.1 x 10 ⁻¹⁵ perms

SURFACE PREPARATION

Concrete substrates - must be clean, dry (less than 75%RH measured by Hygrometer) and free from dust, laitance, oils, paints or other forms of contamination. Grit blasting can be used to remove laitance and surface contamination.

Steel surfaces - must be grit blasted to SA21/2 or rotary disc/wire brushed to ST2. Grit blasting should also be undertaken to remove all rust and scale from steel surfaces prior to using Fildek 405. (see the Guide to Surface Preparation for further details).

For treatment of surfaces containing expansion joints please consult our Technical Department.

PRIMING – MARINE USE

Fildek 405 has excellent adhesion to most substrates and bases and priming is not normally necessary.

PRIMING – CONCRETE SUBSTRATES

If a cementitious substrate has a humidity reading greater than 75%, it is recommended that Strongcoat DPM be used prior to coating with Fildek 405.

(Please consult the appropriate data sheets for further details).

MIXING

Fildek 405 comprises two components, a RESIN and HARDENER which are supplied pre-weighed in the correct proportions. Under no circumstances should part mixing be carried out.

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the HARDENER container into the RESIN container. Using a power whisk attached to a slow speed electric drill, mix for approximately 2 minutes until a uniform consistency is obtained.

Important: Never mix Fildek 405 by hand as this could lead to areas of uncured material.

APPLICATION

Once mixing is complete, transfer the contents of the Fildek 405 to a roller tray and using a brush or medium-pile simulated sheepskin roller, apply it evenly over the surface to give a smooth continuous film.



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WORKING TIME

Fildek 405 has a working time of approximately 20 minutes at 20°C.

Important: Never leave the mixed Fildek 405 kit to stand for any length of time prior to application, as this will considerably shorten its working time.

CLEANING

Once mixing and application are complete, tools can be cleaned with Quickmast Solvent. Cured material can only be removed mechanically.

OVERCOATING

The second coat of Fildek 405 must be applied no later than 24 hours at 20°C after the first coat has cured.

Additionally, the first coat of Fildek 405 must not be contaminated prior to applying the second coat.

SLIP RESISTANT FINISHES

Apply a coat of Fildek 405 to the surface and, whilst this is still wet, completely blind it with an appropriate grade of Aggregate (consult our Technical Department for details of Aggregate grades). Allow the coat of Fildek 405 to cure for the specified time (see Curing Time) then vacuum off the excess Aggregate. The bound Aggregate is then sealed with a further coat of Fildek 405 (consult our Technical Department for details of coverage rates).

Important: The coverage rate of Fildek 405 will be considerably reduced when using it to seal Aggregates.

WORKING CONDITIONS

Fildek 405 should not be applied at temperatures below 10°C.

HEALTH AND SAFETY

Please consult the appropriate Material Safety Data Sheet prior to using Fildek 405.

GENERAL GUIDANCE

This data sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Department.

Please consult our Sales Department to confirm that this Data Sheet is the current data sheet.



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