

Product reference: 4/01

Page 1 of 3

Product title: Fluiglidle

Valid from: 23rd October 1995

Last reviewed: May 2019

Type

A cold cured, highly modified chemically resistant, two-pack resin system filled with stabilizing enforcement to reduce cold flow characteristics. Fluiglidle has good gloss with a waxy appearance and feel when cured.

Suggested use

Fluiglidle's sole purpose is to reduce fluid friction, increasing flow in the boundary layer, thus reducing power requirements and giving better efficiency. This applies both for the reduction of losses in transmitting fluids through pipe work and channels, and increasing the efficiency of fluid prime movers.

Fluiglidle is a surface veil coating system for application over the top of a pre-prepared surface. The adhesion and corrosion resistant properties of Fluiglidle on its own are relatively poor and it should, therefore, only be used on top of the specified undercoating systems.

Limitations

Must not be used direct on to substrate. Product will withstand a high degree of erosion due to fluid velocity, but will withstand only a small amount of abrasion due to particulate solids. Where abrasion is present, Fluiglidle 'E' may be considered suitable. Limiting temperature is 194°F (90°C) but may be lower in certain chemicals.

The chemical resistance of Fluiglidle is extremely good. However, under certain conditions the smooth finish may be affected, reducing the benefits obtained.

Health & safety

Safety precautions should be taken when handling this material. Read Safety Data Sheet before use.

Avoid contact with skin or eyes; do not ingest; wear suitable protective clothing; ensure adequate ventilation.

Surface preparation

Fluiglidle should be applied over the top of one of the following systems, taking care to observe over-coating time limits:

1. Where repairs to corrosion damaged equipment need to be carried out first, full 200 series application should take place with the exception of 252 which should be substituted with two coats of Fluiglidle.
2. Where new or undamaged equipment is to be coated, 2 or 3 coats of 232 application should be carried out to a minimum dft of 14 mils (350 microns) in light corrosive environment or 4 to 5 coats of 232 to a minimum dft of 24 mils (600 microns) in a highly corrosive environment.
3. Pipe work should be Fluiglided by application over a single coat of Polyglass PG where centrifuging is the application method, or over two spray applied coats of Polyglass where spray is the application method. Minimum dft's should be 24 mils and 30 mils (600 and 750 microns) respectively. Heat should not be used to cure these systems when used as undercoats for Fluiglidle in pipe work (except in very cold conditions), but good ventilation through the pipe should be achieved.
4. Where Fluiglidle is to be used on concrete, the concrete should be primed using one of the concrete priming systems specified on User Information Sheet CP1 before coating with Fluiglidle, but where the environment is aggressive, priming and one coat of Polyglass to a minimum of 24 mils (600 microns) should be carried out before Fluigliding.

FLUIGLIDE

Fluiglidle

Product reference: 4/01

Page 2 of 3

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WHERE EXISTING CORROSION OR EROSION PROBLEMS ARE EVIDENT, THE UNDERCOATING SYSTEM FOR FLUIGLIDE SHOULD BE SERIOUSLY CONSIDERED. IF IN DOUBT - ASK!

Application equipment

Brush for equipment. Pipe rolling or centrifuging equipment, Rawlmaster, Von Arx etc., for pipe work up to 1m diameter. Conventional spray with pressure pot and 25 through tip.

NOTE: A special grade of Fluiglidle PG is required for pipe rolling and centrifuging, and inhibitor is required for spray application.

Application

Fluiglidle should be applied over the specified system which has cured for less than 24 hours at 68°F (20°C) or 18 hours at 86°F (30°C). The relative humidity during application and initial cure should be below 90% and minimum application temperature is 50°F (10°C). Surface temperatures should be at least 41°F (5°C) above dew point.

Where brush application is carried out, 2 coats of Fluiglidle should always be applied, each coat being applied to a thickness of between 10-20 mils (250-500 microns). Over-coating of the first coat of Fluiglidle should be carried out not sooner than 6 hours and not later than 24 hours at 68°F (20°C). Times should be adjusted for temperature variation. Flood coating techniques can be carried out to pipe work below 100mm diameter. The minimum total dft of the whole system, including undercoats, should not be less than 32 mils (800 microns).

Single coat applications over undercoat systems are permissible where application method permits.

Over-thickness of Fluiglidle is unimportant in respect of the coating cure system etc. However, it should be kept in mind that reducing the cross-sectional area with Fluiglidle in impeller volutes will increase efficiency while lowering total volume output available. Careful consideration should therefore be given to flow requirements and efficiency increases obtained

against volume output lost, both to pump passageways and pipe work below 75mm diameter.

Pipe work will usually benefit over all by an application of Fluiglidle, provided the system thickness is not over 1mm on pipes between 75 to 200mm and not over 1.5mm on pipes over 200mm.

Where Fluiglidle is to be used for a potable water environment, 7 days at a minimum of 45°F (7°C) should be allowed before putting the system into service. A minimum of 48 hours should be used for other environments.

Mixing ratio

100:2 parts by weight, base to catalyst.

Mixing

Simply add correct amount of catalyst to Fluiglidle and stir with a mechanical stirrer to ensure complete mixing. Where inhibitor is added, it is imperative that this is added to Fluiglidle and the material allowed to stand for at least 5 minutes before the catalyst is added.

Pot life

Standard Fluiglidle: 20 to 30 minutes at 68°F (20°C).
With inhibitor: 40 to 45 minutes at 68°F (20°C) for spray application.

Thinners

Under no circumstances must this product be diluted or thinned. PG grade is available for lower viscosity applications. Standard Fluiglidle and Fluiglidle PG can be mixed for finer adjustments of viscosity.

Packaging

1 and 5 gallon kits including catalyst.

Storage life

12 months stored at temperatures below 68°F (20°C).

FLUIGLIDE

Fluiglidle

Product reference: 4/01

Page 3 of 3

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Color availability

White. **Dyes must not be used.**

Recommended DFT

32 mils (800 microns) minimum total system (read text).

Practical spreading rate

13 sf per gal at 10 mils (0.32 Litres/m² at 250 microns) dft.

NOTE: This information is given in good faith but may increase dependent upon environment conditions, the geometry and nature of work undertaken and the skill and care of application. Corrocoat accepts no responsibility for any deviation from these values.

Specific gravity

0.04lbs/cubic inch (1.1 gms/cc) mixed

Flash point

86°F (30°C).

Temperature limits

Upper: 194°F (90°C) (dependent upon environment). Lower: No known lower limit.

Catalyst type

Methyl ethyl ketone peroxide (Corrocoat Type P2).

Overcoating

Minimum 6 hours. Maximum 24 hours at 68°F (20°C). Temperature variable.

Cure time

Minimum service time 48 hours. For potable water 7 days at a minimum of 45°F (7°C). Full chemical cure 8 days at low ambient of 50°F (10°C).

Cleaning solvent

Acetone, methyl ethyl ketone.

NOTE: This coating is intended to increase fluid flow efficiency. Often it will be necessary to take into consideration design parameters, particularly on pumping equipment which is multi-stage or has narrow passageways. In order to obtain benefit while maintaining maximum flow condition in some types of pump, it will be necessary to leave impeller passageways uncoated.

If in doubt, please seek assistance.

Reviewed 10/2007 (No changes)
Reviewed 02/2014 (No changes)
Reviewed 05/2016 (No changes)
Reviewed 05/2019 (No changes)

All values are approximate. Physical data is based on the product being in good condition before polymerization, correctly catalyzed and full cure being attained. Unless otherwise stated, physical data is based on a test temperature of 68°F (20°C), test results may vary with temperature. Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services.