

**TYPE:**

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

**SUGGESTED USE:**

Fluiglride'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.

Fluiglride is a surface veil coating system for application over the top of a pre-prepared surface. The adhesion and corrosion resistant properties of Fluiglride 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, Fluiglride 'E' may be considered suitable. Limiting temperature is 194°F (90°C) but may be lower in certain chemicals.

The chemical resistance of Fluiglride 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:

Fluiglides 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 Fluiglides.
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 Fluiglidged 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 and 30 mils (600 and 750 microns) respectively. Heat should not be used to cure these systems when used as undercoats for Fluiglides in pipe work (except in very cold conditions), but good ventilation through the pipe should be achieved.
4. Where Fluiglides 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 Fluiglides, 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 Fluiglidging.

**WHERE EXISTING CORROSION OR EROSION PROBLEMS ARE EVIDENT, THE UNDERCOATING SYSTEM FOR FLUIGLIDES 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 thou tip.

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

**APPLICATION:**

Fluiglide 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 Fluiglide should always be applied, each coat being applied to a thickness of between 10 and 20 mils (250 and 500 microns). Over-coating of the first coat of Fluiglide 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 Fluiglide is unimportant in respect of the coating cure system etc. However, it should be kept in mind that reducing the cross sectional area with Fluiglide in impeller volutes will increase efficiency whilst 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 Fluiglide, provided the system thickness is not over 1mm on pipes between 75 to 200mm and not over 1.5mm on pipes over 200mm.

Where Fluiglide is to be used for a potable water environment, 7 days at a minimum of 44.6°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 Fluiglide and stir with a mechanical stirrer to ensure complete mixing. Where inhibitor is added, it is imperative that this is added to Fluiglide and the material allowed to stand for at least 5 minutes before the catalyst is added.

**POT LIFE:**

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

THINNERS:	<b>Under no circumstances must this product be diluted or thinned.</b> PG grade is available for lower viscosity applications. Standard Fluiglide and Fluiglide PG can be mixed for finer adjustments of viscosity.
PACKAGING:	5 gallon (18.9 liter) composites including catalyst.
STORAGE LIFE:	12 months stored at temperatures below 68°F (20°C).
COLOR AVAILABILITY:	White. Dyes must not be used.
RECOMMENDED DFT:	32 mils (800 microns) minimum total system (read text).
PRACTICAL SPREADING RATE:	13.04ft <sup>2</sup> /gal at 10 mils dft (0.32 Litres/m <sup>2</sup> at 250 microns dft).  <b>Note:</b> 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 accept no responsibility for any deviation from these values.
SPECIFIC GRAVITY:	.0397lbs/in <sup>3</sup> (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)
OVER-COATING:	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 44.6°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 WHILST MAINTAINING MAXIMUM FLOW CONDITION IN SOME TYPES OF PUMP, IT WILL BE NECESSARY TO LEAVE IMPELLER PASSAGEWAYS UNCOATED.

**IF IN DOUBT - SEEK ASSISTANCE**

**Reviewed 10/2007 – No Changes  
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