

POLYGLASS

POLYGLASS PIPE GRADE

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TYPE:	A POLYESTER GLASS FLAKE PIPE COATING , specifically for application using centrifugal pipe rolling techniques.
SUGGESTED USE:	Internal pipe coating for use in hydrocarbons, aqueous, marine and corrosive chemical service environments below 185°F (85°C).
LIMITATIONS:	Not suitable for protection against polar solvents, demineralized water and where pH conditions are below 1 or above 12. Refer to Chemical resistance chart.
HEALTH & SAFETY:	Before handling or using this product the material safety data sheet should be read and all precautions observed.
SURFACE PREPARATION:	Metals: Grit blast to SSPC-SP10 (ISO standard 8501-1 Sa 2½. SSPC-SP 10). (For full details refer to Corrocoat Surface Preparation SP1.) Concrete: refer to Corrocoat data sheet SP5.
APPLICATION EQUIPMENT:	Specialized pipe rolling equipment.
APPLICATION:	Is dependent on intended service but Polyglass Pipe Grade is normally applied in a single wet film at between 40 & 80 mils (1000 & 2000 microns). Primer is not normally used. For further details obtain Corrocoat Pipe Rolling instructions or refer to CC training manual.
RECOMMENDED DFT:	30 mils (750 microns) in marine conditions and up to 100 mils (2500 microns) in highly corrosive conditions, chemical or abrasive environments.
CATALYST TYPE:	Methyl Ethyl Ketone Peroxide, type P2
MIXING RATIO/MIXING:	98:2 base to hardener. For mixing instructions and inhibitor use refer to Polyglass Data Sheet 6.20A. Do not use inhibitor unless necessary and add before catalyst when used.
POT LIFE:	Typically 25-30 minutes at 68°F (20°C). May be adjusted with inhibitor or manufactured specifically to suit specific requirements.
THINNERS:	The performance of Polyglass Pipe Grade is adversely affected by the addition of solvent thinners and their use is prohibited. Thinning may be achieved by addition of not more than 5% styrene monomer to PPG by volume i.e. 1 Gal (1.00 liter) styrene per 5 Gal (18.9 liters) PPG.
PACKAGING:	5 Gallon (18.9 liter) composites.
STORAGE LIFE:	Base 12 months, hardener (catalyst) 6 months stored at temperatures below 75°F (24°C) and away from heat sources and direct sunlight. Frequent temperature cycling will shorten storage life.
COLOR AVAILABILITY:	Off white as standard.
THEORETICAL SPREADING RATE:	54 SF/Gal at 30 mils (1.33m ² /liter at 750 microns).

VOLUME SOLIDS:	This material contains volatile liquid convertible to solids. Volume solids obtained will vary dependent upon polymerisation conditions. Nominally 99.% of the contents are convertible to solid.
PRACTICAL SPREADING RATE:	41 SF/Gal at 30 mils (1.0m ² /litre at 750 microns). Note: This information is given in good faith but rate may vary significantly dependent upon environmental 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:	Polyglass PG base: .04 lbs/Cub In (1.19 gms/cc) Hardener: 04 lbs/Cub In (1.07 gms/cc)
FLASH POINT:	79°F (26°C)
HARDNESS:	40 Barcol.
TENSILE STRENGTH:	3700 psi (25.5 N/mm ²)
ELONGATION AT BREAK:	1.3% in aqueous immersion.
THERMAL COEFFICIENT OF LINEAR EXPANSION:	13.968 x 10 ⁻⁶ /°C.
DIELECTRIC STRENGTH:	18 - 25 x 10 ³ V/mm.
THERMAL CONDUCTIVITY:	0.38 W/m ⁰ K
TEMPERATURE LIMITS:	185°F (85°C) immersed. 248°F (120°C) non-immersed.No known lower limit.
OVERCOATING:	Normally applied as a single coat but where necessary it should take place as soon as the previous coat has gelled and whilst still tacky. Maximum overcoating time is 48 hours at 68°F (20°C).
CURING TIME:	Without inhibitor, tack free 6 hours, full cure 3-4 days at 68°F (20°C), but may be immersed in many environments after 12 hours. Low level through pipe ventilation should be maintained during cure.
CLEANING SOLVENT:	Methyl Ethyl Ketone, Methyl Iso Butyl Ketone - before gel.

All values are approximate. Physical data is based on the product being in good condition before polymerization, correctly catalyzed and full cure being attained. Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services.