

Polibrid 705E

An engineering solution

Outstanding impact and abrasion resistance while combining an ability to withstand a broad range of chemicals make Polibrid® 705E the ideal engineering solution for many challenging environments where conventional coatings fail.

- 100% solids, solventless, odorless, meets all VOC regulations
- Corrosion protection for steel and concrete suitable for numerous immersion, chemical, abrasion and impact resistant applications
- Protects against microbiologically induced corrosion, making it perfect for wastewater applications
- Ideal for encapsulation of rivets, bolts, edges and other surface imperfections
- Bridging cracks in concrete
- Extremely low water permeability giving excellent long term performance
- Fast curing times – can be placed in-service as soon as touch dry
- Case histories spanning over 25 years
- Polibrid 670S primer for concrete available



Outstanding performance across a range of applications

Polibrid 705E is more than just a protective coating it is an engineering solution with the ability to solve problems in a wide range of environments. Fast setting properties ensures rapid return to service improving productivity and reducing costs.

Concrete structures and secondary containment

This tough and flexible product has crack bridging properties and the ability to withstand typical movement in concrete. Embedding a geotextile fabric prevents the need for grouting heavily pitted or eroded concrete.

Polibrid 705E is resistant to a range of chemicals from 20% sodium hydroxide to 30% sulphuric acid and many other cargos.

Water and wastewater

Boasting over 25 years of track records, Polibrid 705E's unique blend of properties makes it the ideal solution for many applications such as sewerage treatment plants, manhole pits and pump stations, secondary containment and water purification plants.

Suitable to protect sewerage treatment plants against microbiologically induced coating and concrete breakdown as Polibrid resists the harmful effects of hydrogen sulphide and sulphuric acid production.

Mining and mineral processing

Polibrid 705E provides excellent protection against the extremely abrasive and chemically harsh environments experienced in the mining industry such as coal slurries, thickener, flotation and CIL tanks as well as secondary containment. The life of the asset can be increased significantly by the use of Polibrid.



Technical information

Color	Buff		
Volume solids	100%		
Typical dry film thickness	27.6-196.9 mil (700-5000 µm)		
Temperature	Touch dry	Hard dry	Min. recoat
59°F (15°C)	2 hours	2 days	2 hours
77°F (25°C)	1 hour	1 day	1 hour
104°F (40°C)	40 minutes	1 day	40 minutes
VOC's	0.0lb/gal (0 g/L) - calculated		

Test data

	TEST METHOD	RESULTS
Tensile strength	ASTM D-12	2,800 psi minimum (19.3 MPa)
Flexibility	ASTM D-1737	Passes multiple bends on .125 in (3.2 mm) diameter mandrel @ 30 mils (762 µm)
Abrasion resistance	ASTM D-4060	40 mgs maximum weight loss Taber Abraser w/ CS-17 wheels, 1,000 revs: 1 kg load
Impact resistance		160 lbs (72.5 kg) minimum/Direct and reverse
Elongation	ASTM D-412	43%



Polibrid 705E is a drinking water component classified by Underwriter's Laboratories Inc. in accordance with ANSI/NSF Standard 61-1996-7P59



Polibrid 705E complies with ANSI/AWWA C210-92 pipe inside/outside protective coating standards.

www.international-pc.com
pcmarketing.americas@akzonobel.com

All trademarks mentioned in this publication are owned by the AkzoNobel group of companies. © Akzo Nobel 2015.
AkzoNobel has used its best endeavors to ensure that the information contained in this publication is correct at the time of printing.
Please contact your local representative if you have any questions.
Unless otherwise agreed by us in writing, any contract to purchase products referred to in this brochure and any advice which we give in connection with the supply of products are subject to our standard conditions of sale.