

XL-SSM Machinable Composite

GENERAL DESCRIPTION

XL-SSM has been especially engineered for use in repairs requiring final machining. A filled material, XL-SSM has very good overall chemical resistance and physical strength. It can be easily built up to thickness of 1 inch or more and its cure time facilitates quick finished repairs. Shaft repairs may include applications subjected to sludge, oil, petrochemicals, acids, slurries, etc.

XL-SSM has an excellent track record with a wide variety of materials.

FEATURES

- Easily machined
- Very good wear resistance
- Excellent corrosion resistance
- Good temperature resistance
- Easily worked with in thick applications
- Excellent compressive strength
- Machinable with conventional tools



1 kg. (2.21 lb.) units; approximately 38cubic inches

COVERAGE

XL-SSM can be applied up to 1 inch or more. Theoretical coverage at 500 mils in thickness is 0.55 ft²/kg.

COLOURS: XL-SSM is steel gray in colour.

MIXING RATIO

3 parts base (B) to 1 part (A) hardener by weight 3 parts base (B) to 1 part (A) hardener by volume

POT LIFE

for a 1 kg unit mix at 21°C, pot life is approximately 25 minutes. High temperatures or larger mass will shorten this time, lower temperatures or smaller mass will extend it. Pot life can also be extended by spreading the mass out to dissipate heat.

SURFACE PREPARATION

The area to be repaired should be machined down so that it is undercut to a minimum of 1/16 of an inch. The surface of the cut should be rough; a thread pattern or gramophone cut should be used. The ends of the cut should be keystoned or undercut as far as the bit can cut, leaving a fine edge on the shaft. After machining, the area must be thoroughly cleaned with MEK or similar solvent to remove all traces of cutting or lubricating agents.





CHEMICAL RESISTANCE GUIDE FOR XL-XAC

Acids	Alkaline	Hydrocarbons	Solvents	Misc-
Hydrochloric Acid 20% Hydrochloric Acid 20% Nitric Acid 67% Nitric Acid 20% Phospheric Acid 85% Phospheric Acid 40% Phospheric Acid 20% Sulphuric Acid 98% Sulphuric Acid 50% Sulphuric Acid 20% Sulphuric Acid 20%	Ammonium Hydroxide Calcium Chloride Calcium Hydroxide Calcium Carbonate Sodium Carbonate Sodium Hydroxide 50% Sodium Hydroxide 30% Potassium Hydroxide	Crude Oil Fuel Oil Gasoline JP-5 Kerosene Mineral Spirits	Acetone Benzene Methylene Chloride Methyl Ethyl Ketone Toluene	Beer Demineralized Water Seawater Sodium Hypochloride

Service @ 70 Deg. F

■ Suitable for Immersion A Suitable for Splash/Spills & Secondary Containment

Not Recommended

ECHNICAL DATA & INFORMATION

Basic Chemical Resistance at Room Temperature:		Typical Physical Properties of Cured System:		
Inorganic Acids Dilute	Very Good-Excellent	Density	1.83	
Organic Acids	Good-Very Good	% Solids	100	
Solvents	Good-Very Good	Flexural Strength @ 21°C	1322 kg/cm ²	
Alkalis	Excellent	Tensile Strength @ 21°C	851 kg/cm ²	
Salts	Excellent	Tensile shear @ 21°C	211 kg/cm ²	
Alcohols	Excellent	Service Temperature Max.	218°C	
Hydrocarbons	Excellent	Operating pH Range	1.5-14.0	

Mixing

Mix ALL of Part A with ALL of Part B. Mixing may be done on a large mixing board or container large enough to hold both the base and hardener. The selected mixing surface must be clean and dry. Mix the material thoroughly until no streaks of any kind are visible. If materials are cold, warm them to 21°C before mixing.

Application:

Cement: Linings of duct of cement & raw mills, clinker feeding bins, hoppers & silos. Lining of pump casings, slurry tanks, Heat exchangers/condenser tube sheets of CPP, traveling water screens of CPP, external lining of DG sets & its ductings. Acids caustics, storage/vessel internal linings.

Power Plant: Ash slurry tanks, condenser water box & doors linings, cooling tower fans, coal bunkers, hydro scroll cases hydro wheels, hydro wicket gates, traveling water screens, circulating pump casings. Internal linings of water, acids, caustics & hydrocarbon storage tanks of DM plants. Trenches & floors of DM Plants, coal carrying rail cars.

Steel Industries: Internal linings of Gas holders, storage vessels in oxygen plant. Acids/caustics storage tanks & vessels in pickling plant & CRM, Iron ore slurry pump casings pipeline coatings.

Other Industries: Bulbous Noses, Bow & stern thrusters, corroded/cairtated wet liness. Discharge pipes, sea chests & scoops, sluice gates, valve body surfaces of marine/ship applications. Centrifuges, product chutes, pump casings stock chests of paper plant. Acids caustics hydrocarbons tanks of refineries.

Storage

Store all product in a clean, warm area where the temperature remains between 60-90°F (15-30°C). Cold products are very viscous and will be difficult to mix and apply. Products shipped during cold months can remain cold for many days even when stored as recommended. Paste or trowel applied products will remain cold longer than liquid or spray applied products. Heating of the individual components may be required to bring the products to the recommended temperatures.

Packaging- 1kg. / 5kg.

All products are formulated and tested for long term effectiveness in a variety of environments. The information listed is a compilation of over fifteen years of laboratory tests, material supplier data, field installations and technical publications. Because the only true reliable test is one that is in actual operation, no warranties either expressed or implied as to the performance of these products is given.



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