SOLHYDROC

POLYMEM C.R.

Two-component, 100% solids, polysulphide-based elastometric membrane resistant to chemical products

POLYMEM C.R. is a two component, 100% solids, polysulphide based elastomeric membrane, capable of resisting a variety of chemical products. The **POLYMEM C.R. PLUS** version is reinforced with geotextile for soils and sand subtrate applications.

USES

POLYMEM C.R. is used as an impermeable membrane to contain a wide range of chemicals, including hydrocarbons.

TYPICAL USES:

- As a membrane under acid resistant concrete
- As a protective barrier for primary and secondary containment
- To protect concrete against aggressive chemicals
- Tank farm protection - as containment for chemical spills to diminish environmental contamination

PRODUCT FEATURES

- Can be applied to a variety of surfaces
- Excellent chemical resistance to hydrocarbons
- Resistant to U.V. degradation
- Excellent elasticity on all substrates

SURFACE PREPARATION

This step is the most important. The life of the system will be prolonged considerably if the following recommendations are followed:

CONCRETE SURFACES

- All surfaces must be clean and free of existing coatings.
- Remove all debris from work area.
- Remove all oils, grease, dirt and wax solutions from the surface.
- Clean all surfaces by sandblasting or "blastraking" to remove all substances that might inhibit the bond of the membrane to the surface.

STEEL SURFACES

Steel surfaces must be sandblasted to white metal and the membrane must be applied immediately after sandblasting to prevent oxidation of the substrate.

MATERIAL PHYSICAL PROPERTIES @ 25°C (77°F)

CHEMICAL RESISTANCE	
Reagent	**Exposure**
Distilled Water	Immersion
Sulfuric acid 5%	Immersion
Sulfuric acid 50%	Splash & Spills
Hydrochloric acid 20%	Splash & Spills
Phosphoric Acid	Splash & Spills
Ammonia 30%	Splash & Spills
Ethanol	Immersion
Methanol	Immersion
Acetone	Immersion
Toluene	Immersion
JP4 Jet Fuel	Immersion
Sodium hydroxide	Immersion
Transmission oil	Immersion

PHYSICAL TESTING	
Specific Gravity	1.42
Viscosity (non diluted)	780 cps
Color	Black
Shore Hardness A	42 to 47
Tensile Strength	300 psi
Elongation	250 %
Modulus of rupture @200% elongation	170 psi

HARDENING @ 20°C	
Pot life	30 minutes
Track free	100 minutes
Final cure (25°C)	16 hours
Back in service	24 hours
continuous immersion	7 days

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PRIMING

Before applying a coat of the **POLYMEM C.R.**, it is necessary to prime the surface with **POLYMEM C.R.**

PRIMER as follows:

- Apply **POLYMEM C.R. PRIMER** at a rate of 200 ft^2 per gallon (5 m^2/L) by spray or roller.
- Take all necessary precautions to avoid contaminating the coat of primer while it cures.
- Cure time of the primer is approximately 1 hour.
- The primer and membrane must be applied the same day.
- If the primer is not recoated within 8 hours, reprime.

PRODUCT MIXING

Open the "A" component and mix until a uniform consistency is obtained. Open the "B" component and gradually add it to the "A" component while continuously mixing. Mix at a low speed using a hand held jiffler type mixer while carefully scraping the sides and the bottom of the container to ensure proper mix.

PRODUCT APPLICATION

It is recommended to applied **POLYMEM C.R.** by squeegee or trowel. **POLYMEM C.R.** may also be applied by spray. In order to facilitate spraying this product can be diluted with up to 20% by volume of **M.E.K.** or xylene.

CURING

POLYNEM C.R. is a self-curing material.

ESTIMATING/YIELD

POLYMEM C.R. should be installed for a total thickness of 40 mils, 40 ft^2 per gallon (1 m^2 per litre).

PRECAUTIONS/RESTRICTIONS

- This product is not designed to support vehicular traffic
- Perform corrosion resistance tests with chemical solutions in question

- Do not apply to floor slabs unless a good quality, non-ruptured vapor barrier is installed under the slab

PACKAGING

POLYMEM C.R. 4.5 gal unit

RECOMMENDED TOOLS

The following tools will assure a cost effective, satisfactory installation:

- Drilling machine with paddle mixer
- Scraper
- **GRACO XTREME monocomponent vaporization equipment**

CLEANING

Use a xylene-based cleaner to clean all tools and equipment.

STORAGE

Store in a dry temperate area.

SECURITY

See Material Safety Data Sheet.

For Professional Use Only

www.solhydroc.com

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