

מערכת אפוקסי לציפוי בטון

נתונים טכניים – רטוב:

- % מוצקים – 100%
- משקל סגולי -
- זמן עבוד (C ? 20) -
- יבוש למגע -
- ייבוש סופי -
- יבוש לעמידות כימית מלאה – 7 ימים.
- פריימר –

נתונים טכניים יבוש:

- קרשי SHORE D -
- חוזק ללחיצה -
- חוזק למתיחה -
- הדבקות -
- הדבקות לבטון - טובה מהחוזק הפנימי של הבטון.
- עמידות בשחיקה -
- מודול אלסטיות –

CHEMICAL RESISTANCE OF EPOXY COATING TYPE

P.C.R – ERPCERTIN

SAE WATER, BRINE	20%	*****
PETROLEUM		*****
CRUDE OIL / FUEL OIL MIXTU		*****
TETRAETHYL LEAD FUEL		*****
TOLUENE		*****X
XYLENE		*****X
PHENOL AQ. SOL	95%	*****X
THIONYL CHLORIDE CONC.		*****X
SULPHURIC ACID	50%	*****X
	60%	*****X
	70%	*****X
	96-98%	*****X
HYDROCHLORIC ACID	10%	*****X
	CONC.	*****X
NITRIC ACID	10%	*****X
	20%	*****X
PHOSPHORIC ACID	10%	*****X
	43%	*****X
	85%	*****X
CHROMIC ACID	10%	*****X
ACETIC ACID	50%	*****X
	100%	*****X
LACTIC ACID	10%	*****
AMIMONIA	10%	*****
	CONC.	*****
CAUSTIC SODA	30%	*****
JAVEL WATER		*****
SULPHITE SPENT LIQUOR		*****
PAPER BLEACHING SOLUTION		*****X
SODIUM MONOCHLORACETATE		*****X
FORMALDEHYDE	40%	*****X
ETHYL ALCOHOL	95%	*****X
BUTYL ALCOHOL		*****X
ISOPROPLYL ALCOHOL		*****X
DIACETONE ALCOHOL		*****X
DIOCTYL PHTHALATE		*****
TRICRESYL PHOSPHATE		*****
PINE OIL		*****
ACETONE		*****X
NETHYL ETHYL KETONE		*****X
ETHYL ACETATE		*****X
ETHER		*****X
TRICHLORETHYLENE		*****X
CHLOR-ACETYL CHLORIDE		*****X
EPICHLORHYDRIN		*****X
METHYLENE CHLORIDE		*****X
D.B.M. CONE.		*****X
C.B.M. CONE.		*****X

DURATION OF TEST IN MONTH *-----2-----4-----6-----12-----18-----
 24
 COATING THICKNESS : 500 MIN
 CURING : 7 DAYS AT 20 C
 RESISTANT = *
 TEST STOPPED = X

Typical Physical Properties

(Test conditions: room temperature)

Tensile strength, psi.....	8,000-9,000
Compressive strength, psi.....	16,000
Flexural strength, psi.....	17,700
Impact strength, Izod.....	0.3-0.4
Hardness, Rockwell M.....	99-108
Heat-distortion temperature, C.....	66-76*
Modulus of elasticity in flexure, psi.....	0.54×10^6
Thermal conductivity, cal/(sec) (sq cm ²) (°C) (cm).....	4.8×10^{-4}
Flammability, in./min.....	0.34-0.36
Shrinkage during cure, in./in.....	0.004-0.005
Water absorption 24-hr immersion, %.....	0.11-0.12
Moisture-vapor transmission, at 38 °C, relative humidity 95%, g/sq ft/ 24 hr/in. thickness.....	<0.01

Typical Electrical Properties

Property	Frequency, cyces/ses					
	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10
Power factor						
-40°C	0.0220	0.0200	0.0195	0.0175	0.0195	0.0170
.....	0.0300	0.0500	0.0500	0.0700	0.0900	0.1000
-20°C	0.0090	0.0400	0.0480	0.0800	0.1000	0.1300
.....	0.0045	0.0100	0.0600	0.0750	0.1100	0.1500
20°C	0.0175	0.0165	0.0300	0.0600	0.1200	0.2000
.....						
60°C	3.4	3.5	3.3	3.3	3.2	3.1
.....	3.8	3.8	3.75	3.7	3.6	3.4
100°C	4.1	4.2	4.2	4.1	4.2	4.1
Dielectric constant	4.3	4.4	4.6	4.6	4.5	4.4
-40°C	4.5	4.6	4.7	4.8	4.9	5.0
.....						
-20°C						
.....						
20°C						
.....						
60°C						
.....						
100°C						
Volume resistivity			2×10^9	ohm-cm		
25°C			2×10^9	ohm-cm		
.....			2×10^9	ohm-cm		
50°C			2×10^9	ohm-cm		
.....			2×10^9	ohm-cm		
75°C						
.....						
100°C						
125°C						

