

# BIO-CHIME™ 390

SUPER-TOUGH,  
100% SOLIDS  
ELASTOMERIC FILLER.



## PRODUCT DATA SHEET

BIO-CHIME™ 390 is a solvent-free, elastomeric, chemically resistant sealant with the consistency of soft putty. When fully cured it resembles tennis ball rubber.

BIO-CHIME™ 390 is an extremely adhesive material suitable for application over steel, primed or painted steel or concrete.

BIO-CHIME™ 390 is designed for applications where a flexible, corrosion resistant seal or expansion joint is required. It is especially recommended for exposure to aromatic and aliphatic hydrocarbons, mineral acids, esters and alcohols except methanol.

## RECOMMENDED USES

**TANK CHIME AREAS:** Creates a permanently flexible corrosion resistant seal on the exterior chime surfaces of field storage tanks and similar structures.

**CONCRETE EXPANSION JOINTS:** Use in situations where other joint compounds would soften or fail by solvent or chemical attack.

## TECHNICAL INFORMATION

VEHICLE TYPE .....	Epoxy/polysulfide
PIGMENTATION .....	Color/Inert
COLORS .....	Gray
FINISH .....	Medium gloss
THINNER .....	Not required
CLEANER .....	MEK or lacquer thinner
MIXING RATIO .....	Base/Cure :: 1/1 by volume
INDUCTION TIME. ....	Not required
POT LIFE .....	Approx. 45'/77°F
FLASH POINT .....	Over 200°F
SOLIDS BY VOLUME .....	100%
SPREADING RATE/GAL.....	6.4 sq.ft./gallon at 250 mils
COVERAGE , EXTERIOR CHIME .....	6 ft/gallon, 3" foundation lip
DRY TIME, (TOUCH) .....	4 hours at 77°F
FULL CURE .....	24 hours
APPLICATION METHOD.....	Spreader or heated plural airless spray.
VOC. ....	Essentially zero

## APPLICATION NOTES

**SURFACE PREPARATION** – This may be accomplished in several ways:

**New Concrete:** Leave to cure properly for a minimum of 20 days before coating. Weak surface laitance must be removed by either; acid etching or abrasive blasting. (Note: acid etching can be difficult and unreliable unless performed with particular attention to proper acid application, scrubbing, rinsing, and drying.) Abrasive blasting, (recommended), may be effected by conventional open blasting or with “Blastrac”® type centrifugal equipment. The concrete surface after preparation should have the granular appearance of medium sandpaper.

**Aged Concrete:** Best prepared by abrasive blasting. If contaminated, contact Thin Film Technology, Inc. for advice.

**Steel:** Abrasive blast or power tool clean for atmospheric service.

**Existing Coatings:** May be applied over clean coatings in good condition. Do not overcoat with conventional coatings.

**APPLICATION** - follow the sequence described below:

**Primer, or Base Coat:** Application of BIO-SEAL 197 penetrating sealer on porous concrete before BIO-CHIME 390 will prevent or minimize out-gassing, allow to cure until at least “gummy” before applying the BIO-CHIME.

Apply by heated, plural component airless spray for best results, small areas can be applied by brush or spreader. Roller application is not practical.

Requirements for heated plural spray:	Fluid pressure:	3,000 psi at gun
	Fluid temperature:	150°F+
	Fluid hose:	3/8” min for 100’ length.
	Airless pump:	Graco “Bulldog”, “King” or similar
	Airless Gun:	Graco 207945 or similar
	Airless tip:	17 – 31 thou”

Do not exceed applications thicker than 2” otherwise internal overheating from exothermic curing reaction may occur. Typical thickness in the chime area is ½” at the angle to 20 mils at outer edges.

Applications should be made between 40°F minimum and 110°F maximum.

**CURING BEFORE SERVICE:** BIO-CHIME 390 will be touch dry in 4 hours and is essentially fully cured after 24 hours at 77°F, (25°C).

WE URGE YOU TO READ THE MATERIAL SAFETY DATA SHEET (MSDS) BEFORE USING PRODUCT AND TO CALL POWERWRAP LP AS NECESSARY FOR ADVICE OR INFORMATION BEFORE ANY ACTUAL OR CONTEMPLATED APPLICATION. THIS PRODUCT IS MANUFACTURED IN THE USA BY THIN FILM TECHNOLOGY, INC.



PowerWrap LP • 3605 W Pioneer Pkwy • Ste C • Arlington TX 76013  
(817) 303-7473 • Fax: (817) 277-7473 • Mobile (214) 850-3746  
Email: [bill@powerwraplp.com](mailto:bill@powerwraplp.com) • Website: [www.PowerWrapLP.com](http://www.PowerWrapLP.com)

**SAFETY:** This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

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