

BIO-CHIME™ 390

SUPER-TOUGH,
100% SOLIDS
ELASTOMERIC FILLER



Thin Film Technology, Inc.

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. 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 accomplished 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 390**.

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 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 THIN FILM TECHNOLOGY, INC. AS NECESSARY FOR ADVICE OR INFORMATION BEFORE ANY ACTUAL OR CONTEMPLATED APPLICATION.



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

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