



**FOURTHANE BLACK | CARGA FINA**

**FOURTHANE® | BLACK LINE F-5611**



## RECOGNITIONS

GANADOR 2013  
**pro|CHILE**  
Innovative Entrepreneurship



GANADOR 2012 - 2013  
**Mejor Innovación  
Industrial en Chile**



**OUR MISSION IS TO PROVIDE QUALITY,  
SUSTAINABLE, INNOVATIVE, AND WORLD-CLASS  
PRODUCTS AND SERVICES THAT ENSURE  
THE AVAILABILITY AND RELIABILITY  
OF MINING AND INDUSTRIAL PRODUCTS.**

**PRESENCE IN MORE THAN 45 COUNTRIES**



## TECHNICAL DATA SHEET

FOURTHANE F-5611 is a fast curing, two component, 100% solids once cured, epoxy based polymeric compound formulated with ceramic beads and silicon carbide reinforced, specially designed to protect against abrasion and fine particle impact.



### USE:

- Transfer chutes, feed, trouser
- Spool
- Cyclones, Hydrocyclones
- Plant Wear Components Concentrator and Oxide Plants
- Dust Collectors
- Screens
- Ball and Sag Mills

### FEATURES AND BENEFITS

- Thixotropic epoxy, will not sag on vertical walls or overhead (Non Sag Putty).
- Easy to mix and use, ideal for maintainers.
- Fast curing, facilitating surface repairs, in short plant shutdowns.
- Excellent adhesion to metal, concrete and ceramics.
- Reinforced with ceramic micro beads.
- No shrinkage.

## TECHNICAL DATA SHEET

### INSTRUCTIONS FOR USE

The success of the recovery and protection of components and/or equipment with **FOURTHANE BLACK 5611** will depend largely on proper surface preparation. For this reason, it is important that all applications begin with a thorough preparation, **DECAPING** the surface with an electric grinder using a grinding disc (SSPC-SP-3), Remove all dirt, debris, and any loose coating or surface debris with a proper mechanical technique. (SSPC-SP-2). Repairs should be made as soon as possible to avoid rusting of the metal to which the product will be applied.

Mixing of **FOURTHANE BLACK 5611** should be accomplished by adding the hardener to the resin. The mixing process is finished when the product has a uniform appearance. Failure in this process of mixing the material will cause soft spots or a general failure of the product. Mixing time should be 3 to 5 minutes.

Once homogeneously mixed, without leaving any gray traces of **FOURTHANE BLACK 5611**, the applicator should use a 4" trowel to apply the material to the surface to be coated, applying the first thin layer of approximately 2 mm of **FOURTHANE BLACK 5611**, complete the application with thickness according to the defined application.

#### HOW TO ACCELERATE THE SETTING OF EPOXY POLYMERIC COMPOSITES AT LOW TEMPERATURES?

- Store the epoxy in a range of 25C° to 30C°.
- Preheat the surface to be repaired until it is warm to the touch.

#### HOW TO DECREASE THE SETTING OF EPOXY POLYMERIC COMPOSITES AT HIGH TEMPERATURES?

- Mix the epoxy in small quantities to prevent very rapid set.
- Cool the resin and hardener components (15C<sup>a</sup> to 20 C<sup>a</sup>).

## TECHNICAL DATA SHEET

### SHELF LIFE / STORAGE

The product has a shelf life of one (1) year stored in the original unopened container in a covered cellar at room temperature between 20 °C and 30 °C.

Proper storage and handling can extend the shelf life of the product. For safety details refer to product MSDS.

### PRECAUTIONS

Do not get in contact with skin, eyes or clothing. Do not swallow. Avoid inhalation of vapors. Wear a positive pressure respirator when working with fire, welding or torch, near the set component. Use a filtering facepiece respirator when grinding. filter respirator when grinding or machining the set product. For more details, please refer to Product Safety Data Sheet.

The greater the mass of material mixed, the faster the setting and reaction temperature. If mixing large quantities, start applying the product before the exothermic reaction reaches its peak (reaction onset 15 to 20 minutes).  
(reaction start 15 to 20 minutes)

For technical assistance contact us at [support@fourthane.com](mailto:support@fourthane.com)

### NOTE :

- Surface conditions will vary with each application.
- Smooth **FOURTHANE BLACK 5611** with **FOURTHANE EZ-FINISH** to give a smooth, glossy finish after the last coat of filler has been applied.


## TECHNICAL DATA SHEET


SHEAR STRENGTH	1650 psi	ASTM D1002
MIXED COLOR	GREY	
COMPRESSIVE STRENGTH	12.000 psi	ASTM D695
YIELD PER 1 KG	0,0803 m2 a ¼" hickness	
HARDNESS	90 D	ASTM D2240
TOTAL CURE	8 hours a 23c°	
FUNCTIONAL CURE	3 hours a 23c°	
MIX RATIO VOLUME	1:1	
MIX RATIO WEIGHT	1:1	
VISCOSITY	Pasty without runoff	
POT LIFE @ 23C°/75F°	30 minutes	
RECOAT TIME	1 to 2 hours	
SOLIDS BY VOLUME	100	
DENSITY	1,96	ASTM D792
SPECIFIC VOLUME	510 cc / kg	
SPECIFIC VOLUME	Dry 122c° Moist 50c°	


FOURTHANE LTDA. is the leading company in innovation and in the development of solutions for repair of conveyor belts and concentrator plants, with more than 25 years of presence in the Chilean market, has managed to position its products with great success and excellent results in the large national mining companies.


OUR MISSION is to provide maintenance solutions that maximize mining and industrial equipment availability.





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