



Fourthane® | Black Line F-5711

FOURTHANE BLACK 5711





RECOGNITIONS

GANADOR 2013
pro|CHILE



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 40 COUNTRIES



TECHNICAL DATA SHEET

FOURTHANE F-5711 is a fast curing, two component, 100% solids once cured, epoxy based polymeric compound reinforced with Ceramic and Silicon Carbide beads, specially designed to protect against abrasion, due to the effect of fine abrasive particles and impact.



USES :

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

FEATURES AND BENEFITS

- Thixotropic epoxy, no sag on vertical walls or overhead (Non Sag Putty).
- Easy to mix and use, ideal for maintainers.
- Fast curing, facilitating the repair of surfaces, in short plant stops.
- Excellent adhesion on metal, concrete and ceramics
- Reinforced with large ceramic beads and silicon carbide
- No shrinkage

TECHNICAL DATA SHEET

INSTRUCTIONS FOR USE

The success of the recovery and protection of components and/or equipment with FOURTHANE BLACK 5711 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 prevent rusting.

Mixing of FOURTHANE BLACK 5711 should be carried out by adding the hardener to the resin. The mixing process is completed 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 5711, the applicator should use a 4" trowel to apply the material to the surface to be coated, applying the first thin coat of approximately 2 mm of FOURTHANE BLACK 5711, 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 touch.

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

- Mix the epoxy in small batches to prevent very fast setting.
- Cool the resin and hardener components (15C^a to 20 C^a).

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 warehouse at room temperature between 20 °C and 30 °C.

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

PRECAUTIONS

Do not get in contact with skin, eyes or clothing. Do not ingest. Avoid inhalation of vapors. Wear a positive pressure respirator when working with fire, welding or torch, near the set component. Wear a respirator with a dust filter when grinding.

Use a dust 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).
(start of reaction 15 to 20 minutes)

For technical assistance contact us at support@fourthane.com

Note:

Surface conditions vary with each application.

Smooth FOURTHANE BLACK 5711 with FOURTHANE EZ-FINISH to give a smooth, glossy finish.

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" thickness	-
HARDNESS	90 D	ASTM D2240
TOTAL CURE	8 Hours at 23c°	-
FUNCTIONAL CURE	3 Hours at 23c°	-
MIX RATIO VOLUME	1:1	-
MIX RATIO WEIGHT	1:1	-
VISCOSITY	Pasty without run off	-
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	-
TEMPERATURE RESISTANCE	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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