

Restore-90C Conti Repair Conveyor Belt Repair System

Restore-90C Conti Repair is a two-component, mid-viscosity liquid polyurethane conveyor belt surface repair material engineered for rapid curing at room temperature, providing service teams with a simple and effective repair. Designed using a low-free prepolymer for improved health and safety during handling and processing. With surface preparation and primer, this material seamlessly adheres to standard conveyor belt rubber.

PROPERTIES

Prepolymer: Modified-Low Polyether

Hardness Shore A: 88 +/-5

Solids: Part A >90%, Part B 100%

VOCs: Part A 98g/L, Part B 0g/L

Mix Ratio by Weight: 100A:10B

Color: Black

Flash Point: 24.8 °F/-4 °C

Shelf Life: 18 months, unopened

Storage: 60°F-86°F (15°C-30°C) dry, away from sunlight

Operating Temperatures: -70°F (-56°C) to 200°F (93°C)

Coverage: 750g kit, 2 sqft @ 1/8" (0.19 sqm @ 3mm)

APPLICATION DATA (73°F / 23°C)

Precondition Material: > 60°F (15°C)

Working Life: 2 - 3 minutes

Buff Repair: > 1 hour

Functional Cure: 1 - 2 hours

Ultimate Cure: 24 Hours

Overcoat: Under 1 hour without additional surface preparation. Refer to "Surface Preparation" when overcoat time has expired.

SAFETY

FOR INDUSTRIAL USE ONLY. Flammable liquid. See product SDS. Strict adherence to regional health and safety regulations must be practiced. To prevent injury, always take necessary safety precautions while conducting repairs and ensure personnel are properly trained to safely conduct this work. Use proper personal protective equipment (PPE) such as gloves, safety goggles, and protective clothing at all times. Confirm safety devices are in place and functional. Conduct work only in a well-ventilated area and take caution related to flammable materials. Failure to follow these safety measures and the proper procedures in this guide may result in product failure, serious injury, or death. This guide is intended for use by knowledgeable persons having the technical skills necessary to evaluate specific applications. Continental assumes no responsibility for the accuracy of this information under varied conditions found in field use. The user has responsibility for exercising care in the use of this information.

PRIMER: SUBSTRATE

Primer R Conti Repair (2): Rubber

KIT CONTENTS

Complete conveyor belt repair kit 750g. Kit includes: resin, hardener, primer, solvent, mixing spatula, spreader, gloves, brush, cloth.



APPLICATION CONDITIONS

Ambient and surface temperatures should be similar and between 50°F to 113°F (10°C to 45°C). Ensure temperatures are 5°F (3°C) above the current dew point with relative humidity under 85%. It is possible to apply outside this temperature range but expect pot-life and cure times to vary considerably. During colder temperatures Part A (resin) may become solid or present a waxy appearance. Before mixing, slowly warm Part A (resin) back to a clear liquid above 60°F (15°C). Always protect the surface from contaminants and direct sunlight.

APPLICATION INSTRUCTIONS

1. Clean the repair area using a lint free cloth and Solvent Conti Repair (1) to remove contaminants.
2. Mechanically roughen damaged areas using a slow speed rotary tool such as a stiff wire brush or abrasive disk 24 to 36 grit. Avoid melting or burning the rubber surface during preparation as this will cause adhesion failure. Create 45 degree beveled edges and allow 2" beyond repair. Sweep debris and wipe clean with Solvent Conti Repair (1).
3. Shake Primer R Conti Repair (2) bottle to mix contents, then use the Brush to apply one liberal coat to the prepared surface. Allow to dry for 20 minutes or until solvent has fully evaporated. Tenting and warming belting and repair material is an option at low temperatures.
4. Once primer is dry, mix Restore-90C Conti Repair Part A (3A) and Restore-90C Conti Repair Part B (3B).

MIXING INSTRUCTIONS

- a. Material preconditioned temperature is to be above 60°F (15°C)
 - b. Pour Hardener (3B) into Resin (3A) and hand mix thoroughly for 30-45 seconds
 - c. Hand mix, using the Mixing Spatula, until a uniform consistency has been achieved
 - d. Avoid introducing air into the mixture
 - e. Ensure mixing the product away from sides and bottom is done adequately
5. Using the Spreader, build to desired thickness of Restore-90C
 6. Additional layers can be applied within the overcoat window (see above under **Overcoat**)
 7. Clean up immediately using Solvent Conti Repair
 8. Touch-ups can be done after lightly abrading and cleaning the surface
 9. Buff to level the repair area to match the belt cover can be done after 1 hour from application and accomplished using a slow speed sander. For simple surface repairs, back to service is possible in one to two hours.

SURFACE PREPARATION

The performance of this product will depend upon the degree of surface preparation. All substrates must be free from existing coatings, 100% dry, clean, and structurally solid. Remove dirt and dust by sweeping. Contaminants like oil and grease can be cleaned using a lint free cloth and Solvent Conti Repair (1). When adequate surface preparation cannot be achieved, adhesion testing can be done to confirm acceptable adhesion strength can be achieved.

RUBBER / ELASTOMERS

This Kit is for use on cured rubber belting. De-gloss using abrasive blast cleaning or power tool cleaning methods. Include a minimum depth profile of 0.001" (25 micron). Buffing or sanding using slow speed rotation by wire wheel, or 24 to 36 grit aluminum oxide disks can achieve results. Avoid melting or burning the elastomer surface during preparation as this will cause adhesion failure. Primer R Conti Repair is used for bonding to rubber.

