



# CARBONTECH



## REVOWRAP PUTTY 175

Our comprehensive global product lines offer suitable solutions on new construction and maintenance projects for tough and demanding environments.

**Our reputable products are tested, validated, field proven and backed by a team of global professionals.**

# REVOWRAP PUTTY 175

## TWO-COMPONENT EPOXY NOVOLAC POWDER METAL FILLED PASTE

### » PRODUCT OVERVIEW

RevoWrap Putty 175 is a solvent-free epoxy blended with atomized steel alloys and cross-linked with unique fast curing high performance amines processed from renewable resources. The chemistry employed allows for rapid return to service even at low temperatures with options of low energy forced heat curing which achieves an extremely high level of cross-linking, resulting in improved mechanical performance and chemical resistance.

RevoWrap Putty 175 can be applied from thin skim, pit filling layers to 15mm rebuilds without slumping, and in its wet state is water mist smoothable. After 30 minutes in a semi-set putty state, the product is mouldable to desired shapes and once set can be machined to the exact tolerances which may be required.



# REVOWRAP PUTTY 175

## SPECIFICATIONS

<b>Colour</b>	Metallic Grey
<b>Finish</b>	Smooth machinable surface. If exterior is exposed, it will need abrading prior to coating
<b>Dry Film Thickness</b>	200µm to 15mm per coat, dependent on the rebuild requirements.
<b>Solid/s Content</b>	By volume 100%
<b>Theoretical Coverage Rates</b>	80cm <sup>2</sup> /kg at 5mm
<b>Dry Temp. Resistance</b>	Non-Immersion - Ambient Cure: 110°C Non-Immersion - Post Cure: Stable up to 175°C
<b>Temperature Resistance [Immersion]</b>	Temperature performance is dependent on actual chemical exposure. Typically being an epoxy novolac resin system, Revowrap Putty 175 has outstanding resistance to most inorganic acids, alkalies, salt solutions and hydrocarbon solvents and oils. Most aqueous solutions up to 110°C. Refer to the Carbontech Composite Systems' technical department for specific conditions.

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	Remove all oil or grease from surface to be coated prior to abrasive blast, power or hand tool cleaning.
<b>Steel</b>	Ensure that the surface is dry and free from all contaminants. Dry abrasive blast to a near white metal finish, in accordance with ISO 8501 Sa2½ to obtain a 50 to 75 micron blast profile. For mild environments, power tool clean in accordance with ISO 8501 St3 to produce a rust-scale free surface.

# REVOWRAP PUTTY 175

## PERFORMANCE DATA (TYPICAL VALUES)

TEST METHOD	RESULTS
Adhesion Pull-off	> 15 MPa typical
Consistency	Paste, 15mm - no sag
Cured Density	2.5 g/cm <sup>3</sup>
Mix Ratio By Weight Part A : Part B	4:1
Time to set at 25°C	Putty consistency: 30 minutes Light machining: 1.5 hours Full cure: 24 hours

*\*Typical physical properties at 25°C*

## MIXING AND THINNING

### » MIXING

For best results, the contents of the tin should be mixed together for approximately 4 to 5 minutes using a power mixer.

### » THINNING

Do not thin.

### » POT LIFE

15 Minutes at 25°C and less at higher temperatures. Pot life ends when coating becomes too viscous to use.



# REVOWRAP PUTTY 175

## APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

### » GENERAL

Do not attempt to install material if temperatures of material and substrate are not within the recommended ranges. The curing time and application properties of the material are severely affected by temperature changes. Do not add thinners to the system. Full cure will not be achieved and performance will be affected.

### » APPLICATION TOOL

Apply product to the desired thickness. If mixed material is left in the container, it will become unusable within 15 minutes, depending on the temperature. If further build-up of coating is required, light abrasive blast or sand the cured surface to create a rough profile for improved adhesion. A reinforcing fabric such as woven glass fibre can be bedded into the RevoWrap Putty 175 and over coated immediately when additional support is required. Clean equipment immediately after use with Brush Cleaner and rinse off in clean water.

*Do not apply when the surface temperature is less than 3°C above the dew point.*

## CURING SCHEDULE

SURFACE TEMP	DRY TO HANDLE	CHEMICAL EXPOSURE
5°C [41°F]	4 Hours	5 Days
10°C [50°F]	3 Hours	4 Days
20°C [68°F]	90 Minutes	36 Hours
25°C [77°F]	60 Minutes	24 Hours
35°C [95°F]	30 Minutes	18 Hours

# REVOWRAP PUTTY 175

## CLEAN-UP AND SAFETY

### » CLEAN-UP

Brush cleaner and water.

### » SAFETY

Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.

### » CAUTION

Read and follow all caution statements on this product data sheet.

## PACKAGING, HANDLING & STORAGE

### » SHELF LIFE

Part A: 12 Months minimum when stored at 25°C

Part B: 24 Months minimum when stored at 25°C

*\*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.*

SHIPPING WEIGHT [APPROXIMATE]	STORAGE TEMP & HUMIDITY	FLASH POINT [PENSKY MARTENS CLOSED CUP]	STORAGE
1kg	4 to 35°C	Part A: >93°C	Indoors
Parts A & B: 1kg	0 to 90%	Part B: >93°C	
Brush Cleaner: 4.6kg		Brush Cleaner: 22°C	



# REVOWRAP PUTTY 175

## THE CARBONTECH INNOVATIVE PRODUCT RANGE

<b>Revowrap 80</b>	High performance quad-axial glass and carbon fibre pipe wrap system used with ambient temperature 2-part epoxy system.
<b>Revowrap 110</b>	High performance carbon fibre pipe wrap system used with an high temperature 2-part epoxy system.
<b>Revowrap 185</b>	High performance carbon fibre pipe wrap system used with ultra high temperature 2-part epoxy system.
<b>Revowrap 225</b>	High performance carbon fibre pipe wrap system used with ultra high temperature 2-part epoxy system.
<b>Revoshield 124</b>	High performance fibre glass coating system used with super strength 2-part epoxy system.
<b>Revowrap 175 Putty</b>	Medium viscosity high compression strength putty used for the profiling of Revowrap® systems.
<b>Revostrap</b>	A 20 second leak repair system for low to medium pressure.
<b>Revomat</b>	An intelligent post cure system for high temperature wrap systems.
<b>SPITZE Clamp</b>	Temporary repair of live high-pressure leaks without having to shut down or isolate the system.



# CARBONTECH


The place chemistry, engineering and global expertise are brought together to drive progressive innovation in advanced composite technologies for the emergency repair of critical assets **“There is nothing generic about us”** we don't just sell pipe wraps; we provide accurate engineering backing to deliver tailored solutions.


Sound and responsible engineering is the basis on which we build our company, products and services. It is the core to our success and it is the foundation on which we have engineered and manufactured our innovative and bespoke products.

We strive by a zero-failure philosophy and warrant our engineered composite solutions are tested, proven and validated. We vow to provide dependable, responsible and accurate information regarding the capabilities of our systems.

 [www.revowrap.com](http://www.revowrap.com)

 [info@revowrap.com](mailto:info@revowrap.com)

 +27 (0) 10 446 6866

 358 Politician Street, Northlands  
Business Park, Hoogland,  
Randburg, 2162