

WINKEL PRO W-WR WEAR RESISTANT EPOXY PUTTY

TECHNICAL DATA

Product Name: Product Code: Product Description:	Winkel Pro Wear Resistant Epoxy Putty 20054 Wear resistant epoxy putty cures at room temperature and is designed for maintenance, repair and tooling applications, and also can be be drilled, tapped, machined or painted.
Features:	1.Easily applies to upright surfaces.

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	2.Fix to aluminum, steel and many other metals, as well as concrete.	
	3.Machine casting to metallic finish.	
	4.100% solids	
	5.Non-rusting repairs.	
	6.Resistant to chemicals and most acids, bases, solvents and alkalis.	
	7. High performance of wear resistance	

Product Data:

The color of Part A (Resin):	Dark gray
The color of Part B (Hardener):	Beige
The mixed color:	Gray, nearly aluminum color
Ratio:	7:1 (by volume), 93:7 (by weight)

Storage condition &24 months from date of production if stored properly in original unopened, sealed and
undamaged packaging in cool and dry conditions at temperatures between +5°C and
+25°C. Protect from direct sunlight.

Technical Data:	TYPICAL PHYSICAL PROPERTISE	RESULTS	TEST METHOD		
		Uncured			
	% Solids by Volume	100	-		
	Mixed Viscosity	Paste	-		
	Specific Gravity	Resin: 1.52			
		Hardener: 0.96	-		
		Mixed: 1.48			
	Working time	25~30 mins (500g,@25°C)	-		
	Full cure time	24 hours	-		
	Maximum Operating Temperature	Wet: 49°C, Dry: 150°C	-		
	Cure 7 days@25°C				
	Shear Strength	863 psi	Ref.ASTM D 1002-10		
	Tensile Strength	5670 psi	ASTM D638-14 (Type I, V= 5 mm/min.)		
	Glass Transition Temperature	87.36 (T _g) °C	DSC		
	Flexural Strength	8984 psi	ASTM D790-17 Procedure Al		
	Comperssive Strength	16732 psi	ASTM D695-15		
	Hardeness	89 Type D/1 sec	Ref. ASTM D2240-15 ^{εl}		
	Temperature Lmitations	Continuous: -30 to 150 °C	-		
		Intermittent: -30 to 200 °C			

*** For information only - not for specification purposes.***

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Application Instructions:

1.Surface Preparation

Wear resistant epoxy putty only be applied to clean, dry and well roughened surfaces.

(1) Remove all loose material and surface contamination and clean with a suitable solvent which leaves no residue on the surface after evaporation such as acetone, MEK, isopropyl alcohol, etc.

(2) If necessary, apply moderate heat to remove ingrained oil and clean again with solvent.

(3) Roughen surface by abrasive blasting, grinding, rotary file or other appropriate means.

2.Mixing & Application

Using an appropriate tool, apply the mixed epoxy putty to the prepared surface, pressing firmly to insure intimate contact and eliminate any air pockets at the bond line or within the material.

Some applications such as holed pipes or tanks and cracked casings may require the use of reinforcement tape to bridge the damaged area(s) followed by the application of additional material to completely cover the reinforcement tape.

3.Cleaning Equipment

Wipe excess material from tools immediately. Use acetone, MEK, isopropyl alcohol or similar solvent as needed.

*** Not recommended for long term exposure to concentrated acids or to organic solvents ***

Health and SafetyFor information and advice on the safe handling, storage and disposal, users shall refer toInformation:MSDS containing physical, ecological, toxicological and other safety-related data.