

FR 912 STANDARD STEEL PUTTY

PRODUCT	A metal filled, ambient temperature curing , two- pack Epoxy Paste with outstanding mechanical and thermal properties
APPLICATION	By spatula
VISCOSITY / 25°C	Non-sagging Paste
MIXING RATIO	By Weight: 100By VolumeParts of Resin 11 Parts100 Parts of Resinof Hardener35 Parts of Hardener
40g	OR 1 x 12,5ml spoon filled with Resin to level =
	PLUS 1 x 5ml spoon filled with Hardener to level = 4,5g
COLOUR	Metallic grey
RECOMMENDED MIXING TIME	3 - 5 Minutes
GELTIME / 25 ^o C (5mm thick film application)	1½ - 1¾ Hours
SETTING TIME / 25 ^o C (5mm thick film application)	3 - 4 Hours
SPECIFIC GRAVITY / 25°C	Resin : 3,13 g/cm ³ Hardener : 1 - 1,05 g/cm ³ Mixed Compound : 2,6 - 2,65 g/cm ³
PHYSICAL CHARACTERISTICS	
HARDNESS AFTER 24 HOURS CURE FULL CURE / 7 DAYS / 25°C	/ 25°C Shore D 80 - 85 Shore D 85 - 90
TEMPERATURE	110 - 120°C
RESISTANCE CURE SHRINKAGE (Cured 7 days / 25°C)	0,05 - 0,1 %
CO-EFFICIENT OF THERMAL EXPANSION cm/cm / ^o C	24 x 10 ⁻⁶
TENSILE STRENGTH (ASTM D638)	60 - 70 MPA
FLEXURAL STRENGTH (ASTM D790)	80 - 90 MPA

COMPRESSIVE STRENGTH	100 MPA
IMPACT STRENGTH	11 kJ/m ²
<u>CHEMICAL</u>	
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SULPHURIC ACID 10% CONCENTRATIONGood - SatisfactoryHYDROCHLORIC ACID 10% CONCENTRATIONGood - Satisfactory	
AMMONIA) 10% SODIUM HYDROXIDE)	Very good
WATER AND SALT SOLUTION	Excellent Excellent
OIL AND GREASE	Good - Excellent
PETROL, AROMATIC SOLVENTS	
ESTERS - KETONES, CHLORINA HYDROCARBON SOLVENTS	TED Generally poor (test are recommended)
STORAGE STABILITY 12 months stored under dry and cool conditions in sealed containers	
ΤΟΧΙϹΙΤΥ	Very low toxicity at ambient temperatures. However, gloves should be worn and adequate ventilation must be ensured during application.
PROPERTIES AND USES	FR/912 Standard Steel Putty can be used for emergency and permanent repairs of broken castings, tanks, parts of machinery, to level irregularities and fill blow holes, to build up worn parts and to bond various metals, ie. iron, steel aluminium. The product is also suitable for making tools, jigs, models, etc.
NOTICE	The technical specification and/or our technical advice whether verbal, in writing or by trials is given in good faith and based on our test results obtained but without warranty. It does not release the user from the obligation to test the products supplied by us or any third party as to the suitability for the intended application.
	The application, use and processing of the products are beyond our control and Messrs Elite Chemical Industries (Pty) Ltd's legal obligation in respect of any sale of its products shall be determined by the terms of its conditions of sale.

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