

STOPAQ® 4100 PUTTY

Product Information

Product description: Stopaq® 4100 Putty is a malleable synthetic compound for protection of underground objects against external corrosion. It is used for filling of voids and levelling of irregular surfaces, prior to application of Stopaq® coating materials.

Stopaq® 4100 Putty is a non-toxic corrosion preventative material, suited for application on tank manhole covers and irregular shaped pipeline fittings like flanges and valves. It is compatible with adjacent factory coatings like PE, PP, FBE, etc. It is fully resistant to water and has a very low permeability. It is designed for use on buried structures with low to medium service- and ambient temperatures. The compound does not cure and will not build-up internal stresses. Objects coated with Stopaq® 4100 Putty must be protected against mechanical forces like impacts and indentations by covering it with a protective layer of Stopaq® Geotextile and Stopaq® Outerwrap.

Features

- Adheres on many types of dry substrates.
- Minor surface preparation required wire brushing to St 2 cleanliness (ISO 8501-1) is sufficient, abrasive blast cleaning is not required.
- Fills the finest pores of the substrate
- No effect on Cathodic Protection
- Safe to use. No physical, health or environmental hazards

Benefits:

- · Cost- and time saving surface preparation
- No primer required
- · Fast and easy to apply
- Malleable putty, easy to mold on irregular shaped objects
- No waste Can be re-used

Product certificate: Stopaq® 4100 Putty is certified according to KIWA BRL-K911/02: "Kiwa Product certificate for corrosion protection compound and tapes for tank and pipeline installations according to the Evaluation Guideline BRL-K911/02 with a verification according to standard EN-12068."

Application examples

Flanges: For protection against external corrosion and shaping of buried pipe flanges, insulation flanges and blind flanges.

Valves: For protection against external corrosion and shaping of buried valves.

Manhole covers: For protection against external corrosion and shaping of buried manhole covers, bolts & nuts, etc.

Product properties of Stopaq® 4100 Putty			
Colour	Green		
Density	1,2 - 1,5 g/cm³ [10.0 - 12.5 lb/gal] (ISO 1183-1)		
Temperature range	Operational: -10 to +30 °C [+14 to +86 °F]		
Specific electrical insulation resistance	> 108 (1E+08) $\Omega.m^2$ [\geq 109 (1E+09) $\Omega.ft^2$] (EN 12068) A)		
Shape retention	< 4 mm [5/32"] @ +30 °C [+86 °F] (NEN 6910) A)		
Water absorption	< 0.07 % ^{A)}		
Vitrification temperature	No changes @ -10 to +30 °C [+14 to +86 °F] A)		
Adhesion	> 30 N / 10 cm² [0.44 psi] A)		
Resolved shear stress	> 400 Pa [0.058 psi] @ +30 °C [+86 °F] A)		

General order information				
Product		Stopaq® 4100 Putty is available in different packing		
		sizes		
	Art. Nr.:	Product dimensions and contents:		
	4110	Cartridge 0,53 kg [18.7 oz] , 20 pcs/box, 720 pcs/pallet		
	4125	Tubular bag 2 kg [4.4 lbs], 9 pcs/box, 324 pcs/pallet		
Handling		Handle with care. Keep boxes upright.		
Storage		Store indoor, clean and dry, away from direct sunlight		
		in a cool place below +30 °C [86 °F].		
		Unlimited shelf life.		

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Tools, equipment and				
roois, equipment and	 Temperature probe, Dew point tester, High 	Detailed application instructions are available from Seal For Life Industries.		
auxiliaries	voltage holiday tester	Coating boundaries	Certain applications require that Stopaq®	
	 Injection tool with flexible nozzle 		Wrappingband CZ or CZH is applied adjacent to the	
	 Scissors, Knife, Putty knife, Measuring tape 		planned boundaries of Stopaq® 4100 Putty. See	
	 Abrasive cleaning pads, Wire brushes 		specific coating instructions for more information.	
	 SFL Cleaning Wipes, SFL Substrate Cleaner, or 	Application	Apply a small amount of Stopaq® 4100 Putty on an	
	Isopropyl alcohol, cas. nr. 67-63-0		abrasive pad and rub it onto the surfaces to coated	
	 Personal protective gear 		When all surfaces are covered with a thin layer of	
Additional coating	Depending on type of application, various additional		Stopag® 4100 Putty, continue with building up,	
materials	mechanical protective materials might be needed:		molding and shaping. Avoid air enclosures. The	
	 Stopaq® Wrappingband CZ or CZH 		shaped surface should be smooth, suited for	
	 Stopaq® Geotextile 	Reinforcement	covering with additional Stopag® coating materials.	
	 Stopaq® Outerwrap (various types available) 	Reinforcement	In case the layer thickness of Stopaq® 4100 Putty	
	Optional additional mechanical protection:		exceeds 20 mm [¾"], it is recommended to apply a reinforcement interlayer web for stabilization of the	
	 Stopaq® Outerglass Shield XT Grey or Stopaq® 		moulded putty layer.	
	Polyester	Mechanical	Stopag® 4100 Putty must be protected against	
High humidity	Stopag® 4100 Putty can be applied in a humid	protection	mechanical forces like impact and indentation, by	
	atmosphere. The substrate must be free from	protestion.	application of Stopag® Geotextile and Stopag®	
	condensing water which can be reached by keeping		Outerwrap. Mechanical protection should overlap	
Marie area and	the temperature at least 3 °C [6 °F] above dew point.		the boundaries of applied Putty. Optionally, Stopag	
Work area and substrate	The work area and substrate must be dry, clean and protected against negative weather influences.		Outerglass Shield XT Grey or Stopag® Polyester can	
Product conditions	Stopag® 4100 Putty must be dry and the		be installed for additional mechanical protection.	
Product conditions	temperature should preferably be between +20 °C	Visual inspection	The appearance of Stopaq® 4100 Putty must look	
	and +30 °C [68 to 86 °F] for the ease of application.		smooth and tight and should cover all details with a	
	and too offee to early include case of approachem		thickness of at least 20 mm $[\frac{3}{4}]$.	
Application instruction	n - Surface preparation	Holiday detection	Immediately after application of Stopaq® 4100 Putt	
General	The area to be coated must be clean, dry, and free		a holiday test should be carried out with a High	
General	from oil, grease and dust. All contamination		Voltage holiday tester at ≥ 15 kV. A brush probe is	
	including mill-scale must be removed.		recommended. No further testing is required.	
Degreasing	Degrease surfaces with SFL Cleaning Wipes, SFL			
	Substrate Cleaner, or Isopropyl alcohol and e.g. a	Handling and commissioning		
	lint-free cloth.	Exposure to loads	Objects coated with Stopaq® 4100 Putty should not	
Preventing	Prior to and during the application, the temperature		be exposed to loads e.g. from supports- or lifting	
condensation of	of the substrate(s) must be at least 3 °C [6 °F] above		equipment.	
water	the dew point.	Immersion or burying	Immersion or burying is possible immediately after	
Substrate	Temperature of the substrate should preferably be		completion of the coating application. Consult data sheets for specific instructions of additional	
temperature	between +20 °C and +30 °C $[68 \text{ to } 86 \text{ °F}]$ for fast and		materials used. Backfill and compact with clean san	
	easy application. Preheating may be required.		and filling material without sharp stones or hard	
Carbon Steel	Minimum requirement for surface preparation is St		lumps of soil.	
	2 according to ISO 8501-1. Roughness profile is not			
	essential for adhesion.	Information		
Existing coating -	Remove loose bitumen. For proper adhesion, make		Extensive information is a will-black as a constant of	
Bitumen	sure that the surface is clean and dry. The product	Documentation	Extensive information is available on our web-site.	
	must not be applied on moist bitumen. Moderate		Application instructions and other documentation can be obtained by contacting our head office, fron	
	heating of bitumen is recommended in order to let		can be obtained by contacting our nead office, from	
	trapped water evaporate. After this, bitumen should		our local distributor or by sending email to	



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be allowed to cool down to preferred substrate

Cleaning Wipes, or with SFL Substrate cleaner and an

The substrates prepared for coating must be clean, dry and free of dust according to ISO 8502-3, grade

De-gloss and degrease the surfaces with SFL

temperature.

abrasive pad.

3.

Existing coatings -

others

Final check

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Application of the described coating system should

be carried out by certified personnel.

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DISCLAIMER: Seal For Life industries warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the technical data sheet when used in compliance with Seal For Life industries' written instructions. Because many installation factors are beyond the control of Seal For Life industries, the user shall determine the suitability of the products for the intended uses and assume all risks and liabilities in connection herewith. Seal for Life's liability is stated in its General Terms and Conditions of Seal. Seal For Life industries makes no other warranty either express or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.

Certified staff