IGNACIO VEGA GOROSTEGUI, S.A.

POLIVALENT PUTTY

IVEGOR

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ISO 9001 BUREAU VERITAS Certification

IGNACIO VEGA GOROSTEGUI, S.A.

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MULTIPURPOSE USE, IT CAN BE USED TO REBUILD, SEAL AND PROTECT ANY TYPE OF SURFACES

Protection of any surface type, either exposed to the air or in constant or alternated immersion in sweet or sea water. It also protects surfaces exposed to chemical and environmental corrosives, as well as those ones underground or subject to the impact of weather.

It is used to rebuild, seal, block and stick different types of materials and shapes.

For example, on materials such as iron, steel, aluminium, copper, lead, zinc-coated metals, cement, concrete, marble, ceramics, glass, PVC, and anything else

Excellent adherence and resistance of and between the most varied supports.

It can be applied over dry and wet surfaces, either in air or in sweet and sea water.

The use is recommended there where a maximum anticorrosive protection is needed in marine environments.
Resistant to water, oils, solvents and diluted acids and alcalis. It does not contain any solvents (no COVs) and it does not change its volume when it cures.

Range of application:

- Engineering works.
- Hydraulic constructions.
- Merchant, fishing and other types of vessels and ships.
- Navigation.
- Divers.
- Ship salvaging and recoveries.
- Plumbing.
- Industrial maintenance.
- Swimming pool maintenance.
- Garages.

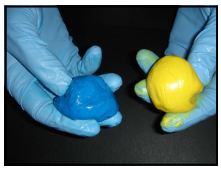
FREQUENTLY USED APPLICATIONS:

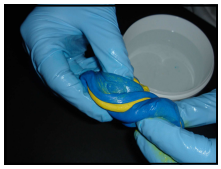
Due to its extraordinary adherence and hardness qualities, as well as its fantastic applications over wet or immersed surfaces, even when a maximum anticorrosive protection is needed.

MULTI PUTTY is used for a wide range of situations:

- To seal leakage in ships and vessels.
- To seal cracks and fissures in concrete, dams, tanks, submarine emissaries, plumbing, walls, etc.
- Joinery seal and plumbing re-construction.
- Re-construction and joinery of different elements and materials such as pipes.
- Long lasting protective and resistant coating against immersed or half-immersed structures like platforms, piers, structural pillars on oil-rigs, and other hydraulic works.
- To seal, reconstruct and reinforce metallic structures where welding / joinery is not possible.
- To seal swimming pool cracks and to stick tiles. No need to empty the pool.

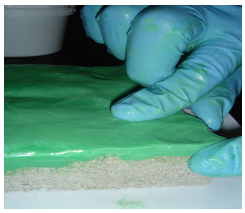
Preparation

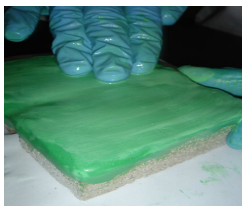




- Mix the same amount of basic component (yellow) and curing agent (blue) till you obtain a homogeneous green mass (without streaks or seams.
- With this difference in colours, it is easy to recognize that the mixture is well prepared.
- We recommend to moist your hands or gloves before and during the mixing to avoid stickiness and to facilitate this task. It´s about moisturing the mixture a bit, do not dilute!
- You should only use the amount of components needed within the time of application, that is 20 minutes at 20ºC.

Application





1. With moist hands and gloves, you can model and spread the mixture, giving it the desired shape and thickness. We recommend 0,5 cm to 1 cm as a standard thickness.
2. It is convenient to press the mixture while it is extended to improve adherence.
3. We can apply it over dry and wet surfaces, in water or in air.
4. Surfaces must be clean, without oxides, grease, paint, impurities or other defects that inhibit the correct adhesion of the Multi Putty.
5. Sanding,scratching, filing or other procedures to get the surface ready will improve its adhesion.

Kit sizes

Set (kit) : 500g (250g+250g).

Set (kit): 1 Kg (500g+500g).

Set (kit): 2 Kg (1 Kg+1 Kg).

Set : 10 kg (5 Kg+5 Kg).

If you are interested in bigger amounts, please contact us.

IVEGOR MULTI PUTTY
(2 COMPONENTS)

SPECIFICATIONS

Two components putty, formulated by a base of epoxy resins without solvents (no VOCs) and selected loads.

PROPORTIONS: (Mixing amounts)	Same amount of each component. 1/1
TOTAL WEIGHT :	1,600 Kg/l
TEMPERATURA RESISTANCE:	200 ºC (aprox)
CONSUMPTION:	1,600 Kg/m² /mm
CURING:	The curing time will be affected by temperature. THE HIGHER THE TEMPERATURE THE QUICKER THE PROCESS. Accordingly, when the temperature descends, the curing process slows down.
* POT-LIFE: (Mixture´s life, since the make of the mix to its application)	15/20 minutes a 20 ºC.
* TOTAL:	4/6 days at 15/20 ºC.
FLESURAL STRENGTH RESISTANCE:	200 σ f(Kp/cm²)
COMPRESSION RESISTANCE:	800 σ f(Kp/cm²)
OBSERVATION:	The meaning of the colors yellow (base) and blue (hardener) is to make a difference between components. The optimun result of the mixture must be an homogeneous green colour in the whole mass (no traces of yellow or blue in it).

(APPROXIMATE DATA

BUREAU VERITAS

11/235/03/0033

273.440

The undersigned, Mrs. Clara ALBA FERNÁNDEZ, surveyor to BUREAU VERITAS ESPAÑOL, S.A. at Cataluña District, Barcelona Office, acting within the scope of the General Conditions of the Industrial Branch,

I N F O R M S :

That, at the request of IGNACIO VEGA GOROSTEGUI, S.A. and from Feb. 14th 2003 to April 25th 2003 at O.T.E.C. Labs. Joaquín Riera Tuebols, S.A.-Rubí (Barcelona-Spain), it has been witnessed the carrying out of the tests effected on:

BICOMPONENT MASTIC called "IVEGOR POLYVALENT MASTIC"

The sample of this mastic supplied to O.T.E.C. Joaquín Riera Tuebols, S.A., consisted of two sets of two tins. One of the sets being of 1 kg. Capacity nr. 0664712001 and the other one of 5 kg. Capacity nr. 0664712002; both of them with BV precint. These tins were opened in our presence.

The prepairing of the samples is described with detail on the report issued by O.T.E.C. Joaquín Riera Tuebols, S.A. with reference nr. 06647.

The tests carried out were the following:

- MECHANICAL PROPERTIES: - Bending Test
  - Compression Test
- ADHESION BY TRACTION
- CHEMICAL RESISTANCE: - A solution of 10% sodium hydroxide
  -A solution of 10% sulphuric acid
  -A solution of 70% isooctane, 30% toluene

These tests were carried out both on mastic cured by inmersion on seawater as well as on mastic cured by air.

The average values of the results obtained are as follows, as shown on the report issued by O.T.E.C. Joaquín Riera Tuebols, S.A. with reference nr. 06647 dated April 30th 2003 which is annexed.

	Mastic cured by inmersion on seawater		Mastic cured by air	
	Average	s	Average	s
Bending Test	6.41 MPa	s = 2.7	14.66 MPa	2.7
Compression Test	14.50 MPa	s = 0.9	27.55 MPa	2.1

Adhesion by Traction:

Nr. of the Dolly	Mastic cured by inmersion on seawater	Mastic cured by air
1	1.1 MPa (85% cohesive rupture)	2.6 MPa (100% cohesive rupture)
2	1.2 MPa (100% cohesive rupture)	4.7 MPa (20% cohesive rupture)
3	0.5 MPa (100% cohesive rupture)	3.7 MPa (100% cohesive rupture)
4	1.1 MPa (100% cohesive rupture)	2.4 MPa (100% cohesive rupture)

Chemical Resistance:

Nr. of the Dolly	Solution of 10% sodium hydroxide	Solution of 10% sulphuric acid	Solution 70% isooctane, 30% toluene
1	0.9 MPa 100% cohesive rupture	0.9 MPa 100% cohesive rupture	1.5 MPa 100% cohesive rupture
2	1.0 MPa 100% cohesive rupture	1.2 MPa 20% cohesive rupture	1.2 MPa 100% cohesive rupture

In witness whereof, the present Report is issued for the end and purposes for which it was designed. Present report consisting of two pages duly signed and sealed and of one annex with the report by the Lab. Joaquín Riera Tuebols, S.A.

Barcelona, May 14th 2003

BUREAU VERITAS ESPAÑOL, S.A. DELEGACION NORTE - SANTANDER -

Clara ALBA FERNÁNDEZ
Surveyor