



## QUALITY CERTIFICATES RIVESTOP

Patented mechanical system for an hermetic and watertight seal of formwork tie holes





## 1. LIST OF QUALITY & TEST CERTIFICATES

Certificate type	 Based on standard/ Report nº	Results
Water-tightness pressure resistance	Based on UNE EN 12390/-8 n. º: 31704071	Resistant – 5 bar

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## DURABILITY

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Certificate type	Certifying entity	Based on standard/ Report n⁰	Results	
	Applus: www.applus.com	n. º: 17/31704072	Resistant – 5 bar Remains unchanged over time. No changes in the waterproofing properties over time.	
Water-tightness pressure test with ageing cycle (to simulate the passing of time) in high temperatures	Applus: www.applus.com	n. º: 17/31704072	Resistant – 5 bar Effect on the ageing cycle at + 80⁰C	
Water-tightness pressure test with ageing cycle (to simulate the passing of time) in low temperatures	Applus: www.applus.com	n. º: 17/31704072	Resistant – 5 bar Effect on the ageing cycle at - 20ºC	
Ozone resistance	CTR: www.ctrsa.com	Based on ISO 1431-1 n. º: 120716/4	Resistant	

<b>FIRE RESISTANCE</b>		
Certificate	 Based on standard/ Report n⁰	Result
Fire reaction	Based on UNE 13501-1:2007 + A1:2010 n.º: 17/14690-1240	Classification: CLASS E

Certificate		Based on standard/ Report n⁰	Result	
Acoustic Insulation		n. º: B2017-LACUS-IN-23	Value of acoustic insulation with Rivestop installed: is the same as of the original concrete wall without perforating holes.	





## 2. CHEMICAL COMPATIBILITY OF MATERIALS

CHEMICAL RESISTANCE AND COMPATIBILITIES – based on UNE 13501-1:2007 + A1:2010			
Certificate	Based on standard/	Result	
Waterproofing with simulation of accelerated ageing in acidic solution		Resistant – no leaks PH 4,0 - 4,3	
Waterproofing with simulation of accelerated ageing in saline solution	Based on UNE 13501-1:2007 + A1:2010	Resistant – no leaks PH 13,2	

The following table shows the chemical compatibility of the materials that compose RiveStop with different chemical substances:

CHEMICAL SUBSTANCES	STAINLESS STEEL 316	THERMOPLASTIC PA	ALUMINIUM	EPDM RUBBER
OZONE	Good	Good	Good	Good
UV - RAYS	Good	Good	Good	Good
HYDROGEN GAS	Good	Good	Good	Good
POTASSIUM NITRATE	Good	Good	Good	Good
FATS	Good	Good	Good	Good
LACTIC ACIDS	Good	Good	Good	Good
RAINWATER	Good	Good	Good	Good
SEAWATER	Good	Good	Regular	Good
SODIUM HYDROXIDE	Good	Good	Good	Good
AMMONIA BASED SOLUTIONS	Good	Good	Good	Good
DRINKING WATER	Good	Good	Good	Non-applicable, because there is no direct contact with the material
CELLULOSE OR BIOMASS	Good	No data	Good	Good
CARBOHYDRATES (BIOMASS)	Good	Good	Good	Good
PLASTER/GYPSUM: CALCIUM SULFATE BASED	Good	Good	Good	Good

 $\cdot$  Other chemical substances compatibility, under request.

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