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Technical Data:

Base	Polyester							
Consistency	Stable paste							
Curing system	Chemical reaction							
Full Curing Time (20°C/65% R.H.)	Temp. substrate 5°C 10°C 20°C 30°C	Working time 25 min 15 min 6 min 4 min	Dry substrate 120 min 80 min 45 min	Moist substrate 240 min 160 min 90 min				
	30°C 35°C	4 min 2 min	25 min 20 min	50 min 40 min				
Specific Gravity	1,67 g/cm ³							
Temperature Resistance	-40 °C to + 80°C							
Dynamic elasticity modulus	3300 N/mm ²							
Maximum bending tensile strength	56 N/mm²							
Maximum compression strength	108 N/mm²							

Product:

SOUDAFIX P300-ST is a two-component anchoring resin for the pressure-free securing of anchoring rods, studs, reinforcing bars, threaded collars, profiles etc in various solid and hollow materials, such as uncracked concrete, light concrete, solid brick, hollow brick, porous concrete, natural stone, plasterboard walls, etc...

Characeristics:

- Easy to use and to apply
- Can be applied with standard caulking gun
- Fast cure
- High bending and pressure strength
- Wide application area
- Overhead application
- Cartridge re-usable by simply exchanging static mixer
- Ideal for anchoring in hollow brick in combination with sleeves
- Watertight and impermeable fixing

Application area:

Securing of standard fixings in solid and hollow building materials. Pressure free anchoring even close to edges. Can be used as repair mortar.

Packaging:

Colour: dark grey after mixing Cartridge: 300 ml for use with standard caulking gun, 345 ml and 410 ml for use with special gun

Shelf life:

12 months in original packaging. Store at cool and dry place at temperatures between +5°C en +25°C.

Substrates:

Type: All usual porous building substrates, poor adhesion on smooth non-porous materials. State: Clean, dry, free of dust and grease Treatment: no particular treatment of substrate needed. In hollow materials the use of sleeves is necessary.

Remark: The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.

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Installation parameters:

Anchor diameter	d	mm	М8	M10	M12	M16	M20
Drill diameter	d_0	mm	10	12	14	18	24
Embedment depth	h _{ef}	mm	80	90	110	125	170
Edge distance	C _{cr1,N}	mm	80	90	110	125	170
Min. edge distance	C _{min}	mm	40	50	60	80	100
Axial distance	S _{cr1,N}	mm	160	180	220	250	340
Min. axial distance	S _{min}	mm	40	50	60	80	100
Min. part thickness	h _{min}	Mm		h _{ef} + 30 mm	h _{ef} +	2 d ₀	
Tightening torque	T	Nm	10	20	40	60	120

Application:

Application method: two-component gun Application temperature: +5°C to +35°C Clean:

Before cure: wipe off excess of product and clean afterwards with white spirit or acetone After cure: it is recommended to let the product fully cure, so that it can easily be removed mechanically

with hammer and chisel. *Repair:* with the same material

Safety recommendations:

Apply the usual industrial hygiene precautions. Only use in well ventilated spaces. Consult the label for more information.

Remarks:

There is a risk of staining on porous substrates such as natural stone. On such substrates a preliminary compatibility test is recommended.

Instructions for use:

- Drill hole at recommended depth
- Clean drill hole with brush and air pump thoroughly
- Screw static mixer onto cartridge
- Dispense the first 10 cm of the product to waste (on piece of cardboard) until an even colour (dark grey) is achieved, and the product is well mixed
- Solid stone: fill the drill hole from bottom up.
 Hollow brick: insert sleeve and fill it bottom up, so that the resin is pressed through the tiny holes of the sleeve
- Insert anchoring rod with twisting left-right motion
- Inspect the drill hole for adequate filling
- Observe hardening time. Don't move the anchoring rod during curing
- Leave the excess of product to cure as well.
 Remove it mechanically with hammer and chisel once cured
- Install component, applying the right torque

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Table 1: Characteristic values for tension loading in Design Method A acc. to ETAG 001									
Anchor diameter				М8	M10	M12	M16	M20	
Steel failure									
Characteristic tension resistance, St 5.8	eel, property class	N _{Rk,s}	kN	18	29	42	78	122	
Characteristic tension resistance, Steel, property class 8.8		N _{Rk,s}	kN	29	46	67	125	196	
Partial safety factor	Y _{Ms,N}	1.5							
Characteristic tension resistance, Stainless steel A4 and HCR		N _{Rk,s}	kN	26	41	59	110	172	
Partial safety factor	¥ _{Ms,N} 1.87								
Pullout and concrete cone failur	re 1)	-							
Characteristic bond resistance in co	ncrete C20/25								
Temperature range: 80°C till 50°C ²⁾	uncracked concrete	$N_{Rk,p} = N_{Rk,c}^0$	kN	11	17	24	27	46	
Partial safety factor (dry and wet)		$\gamma_{Mc} = \gamma_{Mp}^{1)}$				1.8			
Increasing factors for non-concrete of	ψ_{c} $(f_{ck}^{0.30})/2.63$			63					
Splitting failure									
Edge distance	C _{cr,sp}	mm	$c_{cr,N} \le 2 . h_{ef} (2,5 - h/h_{ef}) \le 2,4 . h_{ef}$				I. h _{ef}		
Axial distance	S _{cr,sp}	mm	2 C _{cr,sp}			_			
Partial safety factor (dry and wet)	Υ _{Msp} 1.8 ³⁾								

¹⁾ Shall be determined acc. this table or acc. to 5.2.2.4, Annex C of ETAG001. The smaller value is decisive.

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²⁾ Short term elevated temperature / Long term constant temperature





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Table 2: Characteristic values for shear loads in uncracked concrete according to ETAG 001								
Diameter threaded rod			М8	M10	M12	M16	M20	
Steel failure without lever arm								
Characteristic shear resistance, steel, zinc plated or hot dip, property class 5.8	$V_{Rk,s}$	kN	9	15	21	39	61	
Characteristic shear resistance, steel, zinc plated or hot dip, property class 8.8	$V_{Rk,s}$	kN	15	23	34	63	98	
Partial safety factor	Y Ms,√ 1)		1.25					
Characteristic shear resistance, stainless steel A4 and HCR	$N_{Rk,s}$	kN	13	20	30	55	86	
Partial safety factor	Y Ms,V 1)		1.56					
Steel failure with lever arm								
Characteristic bending moment, steel, zinc plated or hot dip, property class 5.8	$V_{Rk,s}$	kN	19	37	65	166	324	
Characteristic bending moment, steel, zinc plated or hot dip, property class 8.8	$V_{Rk,s}$	kN	30	60	105	266	519	
Partial safety factor	Y Ms,√ 1)		1.25					
Characteristic bending moment, stainless steel A4 and HCR	$N_{Rk,s}$	kN	26	52	92	232	454	
Partial safety factor	Y Ms,∨		1.56					
Concrete pryout failure								
Factor k			2.0					
Partial safety factor	У мср		1.5					
Concrete edge failure								
Effective length of anchor in shear loading	lf	mm	80	90	110	125	170	
Outside diameter of anchor	dnom	mm	10	12	14	18	24	
Partial safety factor	γ _{Mc} 1.5							

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Recommended loads:

The recommended loads are only valid for single anchor and for a roughly design, if the following conditions are valid:

dry bore hole, uncracked concrete C20/25, steel 5.8

 $c \ge c_{cr,N}$

 $s \ge s_{cr,N}$

 $h \ge 2 \times h_{ef}$

If the conditions are not fulfilled the loads must be calculated according to ETAG 001 Annex C. The safety factors are already included in the recommended loads.

Anchor diameter	d	mm	М8	M10	M12	M16	M20	
Embedment depth	h _{ef}	mm	80	90	110	125	170	
Edge distance	C _{cr,N}	mm			1,5 x hef			
Axial distance	S _{cr,N}	mm			3,0 x hef			
Recommended tension load 50°C/80°C ²⁾	N _{Rec}	kN	4,5	6,9	9,6	10,8	18,1	
Recommended shear load without leaver arm for steel property class 5.8 1)	V _{Rec}	kN	5,1	8,6	12	22	34,9	

¹⁾ Shear load with leaver arm acc. Annex C of ETAG 001.

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²⁾ Short term temperature / long term temperature.