

Sika®AnchorFix®P-SF

Chemical Universal Anchoring Styrene-free Resin

General Informations Description

Sika®AnchorFix®P-SF is a polyester quick setting resin, suitable for fixing and anchoring metallic elements into holes bored into the support, consisting of two ready-batched components packed in a special two-compartment cartridge.

Sika®AnchorFix®P-SF is ready for use and is supplied with its special static mixer, to extrude it by means of the standard "silicon type" hand guns (150 mL and 280 mL cartridge) or specific professional guns (380 mL cartridge).

Areas of application

Sika®AnchorFix®P-SF is specifically suitable for:

- steel bars or jointing bars anchoring;
- fixing of dowels, bushings, eyebolts, hooks, threaded or unthreaded bars, anchor bolts, to any solid or hollow

Benefits

- ready-batched, ready for use pack complete with internal mixing when extruding
- no special equipment required (150 mL cartridge)
- quick setting and curing
- alternative toward traditional mechanical fixing
- suitable for anchoring and joining all material types
- suitable for filling solid or hollow subgrades
- no material waste

Characteristics

Description	polyester two component resin for fixing and anchoring
Packaging	150, 280 and 380 mL cartridges
Consistency (when mixed)	creamy paste
Colour	light grey
Shelf life	Store cartridges in the original sealed packing and do not expose to direct heat (+5°C to +25°C): 12 months

Technical Specifications

Application temperature	subgrade and environment: +5°C to +30°C					
Load on concrete	Plug diameter(mm)	M8	M10	M12	M16	M20
	concrete ≥ B25 Frec.(kN)	4,1	6,2	8,9	9,9	11,4
	concrete ≥ B15	3,2	4,8	6,9	7,7	8,8
	porous concrete ≥ B15	1,2	1,2	1,2	-	-
	Frec.(kN) = incl. safety factor calculated to ETAG Values valid for anchor rods 5.8, zinc galvanizes / A4-70					



Key values on concrete	axial distance*	80	90	110	130	120
		(min 40)	(min 50)	(min 60)	(min 70)	(min 90)
edge distance*	100	120	140	170	220	
	(min 40)	(min 50)	(min 60)	(min 70)	(min 90)	
insertion depth = drilling depth*	80	90	110	125	170	
min. part thickness *	80	90	110	125	170	
thread diameter*	8	10	12	16	20	
drill diameter*	10/14	12/16	14/18	18/24	22	
hole diameter in part*	9	11	13,5	17,5	22	
tightening torque concrete**	10	20	40	80	150	
tightening torque porous concrete ≥PB 2**	5	8	8	-	-	

* (mm); ** (Nm).

Bendig strength 56 N/mm²

Compression strength 108 N/mm²

Dynamic E module 3300 N/mm² after 24 hrs

Load on bricks*		M6	M8	M10	M12
hollow brick	Frec.(kN) ≥ Hz 4	0,3	0,3	0,3	0,3
hollow brick	Frec.(kN) ≥ Hz 6	0,4	0,4	0,4	0,4
hollow brick	Frec.(kN) ≥ Hz 12	0,7	0,8	0,8	0,8
sand lime hollow brick	Frec.(kN) ≥ KSL4	0,3	0,4	0,4	0,4
sand lime hollow brick	Frec.(kN) ≥ KSL6	0,4	0,6	0,6	0,6
sand lime hollow brick	Frec.(kN) ≥ KSL12	0,7	0,8	0,8	0,8
light concr. hollow brick	Frec.(kN) ≥ Hbl 2	0,3	0,3	0,3	0,3
light concr. hollow brick	Frec.(kN) ≥ Hbl 4	0,5	0,6	0,6	0,6
concrete hollow brick	Frec.(kN) ≥ Hbn 2	0,5	0,6	0,6	0,6

* recommend load (tension, transverse and angular tension at any angle)

Key Values on bricks	M6	M8	M10	M12
axial separation/min axial separation (plug group)*	Hz, KSL= 100/50 Hbl, Hbn = 200/-			
min. intermediate separating distance (individual groups)*	250			
edge distance*	250			
drilling depth*	55	100-140- 100	100-140- 901	100-90
tightening torque*	3	8	8	8
min. part thickness*	110			
hole diameter in part*	7	9	12	14
filling quantity and number of attachments: e.g. 300 mLcontent				
mortar filling quantity*	6	24 -16 - 24	24 -16 - 20	24 - 20
number of attachment points	24	6 - 9 - 6	6 - 9 - 7	6 - 7

* mm

Table 2

Temperature °C	Curing start (min)	Curing end (min)
5	25	120
10	15	80
20	6	45
30	4	25
35	2	20

Procedure for use**Procedure for use***Subgrade preparation*

Bore supports making use of suitable bit and drill. Holes shall be dry and free from loosely adhering or crumbly particles. To clean internal surfaces use air or a suitable brush. In case of hollow subgrades, insert the sleeve collar available as Sika accessory.

As a function of the expected load, dimension the anchoring. In table 1 are reported some general indication about the diameter and the depth of the hole, the distance between holes and from the edge as a function of the expected load.

Product use

Unscrew the cartridge cap and remove the bottom cover. Screw static mixer down onto cartridge, and fit the latter into the gun. If using 150 mL cartridge, put the back cartridge adapter into the bottom of the cartridge itself. Extrude without using the

resin (2 - 3 times) until it becomes uniformly grey (no stains or stripes in the resin mass): product can be used after that moment only.

Extrusion shall be slow and regular until hole is suitably filled. Extrusion shall be slow and regular until hole is suitably filled. Place the bar in the hole, by turning it, and removing the overflowed excess resin, if any. Fastening shall be operational only after the applicable curing time (table 2). After any extended stop (higher than the curing start in table 2), a new static mixed (also available as optional) is required to make use of the remainder of the resin.

Limits for use

Product features limited tensile strength when applied into holes with very smooth

surfaces or not adequately.

Sika® AnchorFix®P-SF doesn't develop high adhesion on wood, on which is suggested

the use of a Sikadur or Sikafix epoxy resin.

Use Sika AnchorFix P-SF in rooms with a good ventilation

**Safety measures
Percaution**

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request



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