

# EPAND-599

## Technical data sheet



MAVAD ALI ALBORZ  
مهندسی مواد آلی البرز

### Product description.

This product is a two-component epoxy adhesive with the properties of non-shrinking and filling to fix rebar in concrete. This two-component adhesive can be mixed well and dries at room temperature, and is suitable for use with its extraordinary properties. are the following.

### Application areas

- ) Anchoring
- ) Fastening
- ) Restoration and Strengthening Systems for Concrete and Masonry

Typical Properties	Part A	Part B
Appearance	Thixotropic paste	Thixotropic paste
Color	white	cream
Density (g/cm <sup>3</sup> )	1.54	1.54

### Processing Data:

Mixing Ratio	1 part resin to 1 part hardener by volume
Mixing	Mix until uniform grey or white
Working life at 25°C	45 minutes
Minimum Application Temperature	10°C
Minimum Cure Time	12 hours at 25°C
Full Cure Time	4 days at 25°C

### Rebar

Office : Unit 5, second floor, Shohada building,  
on the corner of Karkhane Ghand cross road,  
Karaj city, Alborz province.. Iran  
Factory : SH Block, Talashgaran Alley koshesh AVE,  
kowsar industrial Zone. Karaj city, Alborz province.. Iran  
Tel: . +982632772130-32  
[WWW.MANAPAR.COM](http://WWW.MANAPAR.COM)

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Rebar diameter(da)(mm)	8	10	12	14	16	18	20	25	28	30	32	36	40
Hole diameter(do)(mm)	12	14	16	18	20	22	25	30	32	35	40	48	56
Minimum hole depth(h <sub>ef</sub> )(mm)	90	100	120	140	160	180	200	250	280	300	320	400	440
Minimum concrete thickness(h)(mm)	120	140	160	180	200	210	250	300	330	350	380	430	470
Amount of adhesive required for each cavity(gr)	13	16	22	30	40	50	76	90	120	160	300	650	1200

### Rod

Anchor size(da)(mm)	M8	M10	M12	M16	M20	M24
Hole diameter(do)(mm)	12	14	16	20	25	30
Minimum hole depth(h <sub>ef</sub> )(mm)	80	100	110	125	170	210
Minimum concrete thickness(h)(mm)	120	130	140	160	210	260
Amount of adhesive required for each cavity(gr)	10	15	20	28	60	90

### Typical Physical Properties

Property	value	test method
compressive strength	73 mpa	ASTM D695
Tensile strength	25 mpa	ASTM D638
flexural strength	32 mpa	ASTM D790

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