

# ROCKMAX<sup>®</sup> ANCHORGRIP 900

HIGH STRENGTH, HEAVY DUTY STRUCTURAL  
EPOXY ADHESIVE AND ANCHORING



## INTRODUCTION

**Rockmax Anchorgrip 900** is a two component, high strength, structural epoxy adhesive and anchoring system. It's designed for high bonding strength on threaded rod, bolts, dowels and reinforcing steel bar in concrete in addition it can be used to bonding steel, metal, wood and concrete. The materials supplied in dual plastic cartridges with static mixer nozzle for ease application.

## AREA OF USES

**Rockmax Anchorgrip 900** can be used to variety of applications include anchoring threaded rod, anchoring reinforcing steel bar, setting starter bar, fixing the machine base to concrete foundation, electrical power pole fixing, wall & beam connections, fixing heavy load concrete structures, fixing steel handrails, staircases. It may also be used to seal cracks and set injection ports prior to injection grouting.

## ADVANTAGES

- Excellent bonding strength.
- Excellent chemical resistance.
- 100% solid.
- Design to use with heavy duty load applications.
- Can apply on damp surface.
- Can use on vertical and overhead applications.
- Wide range of application temperature (0 to +45°C degree)
- Meet the requirement of ASTM C881, Types I, II, IV and V grade 3.
- Non shrinkage.
- High durability.
- Fast setting.
- Can be installed in wide range of base material temperatures.
- No expansion force in base material.
- Odorless and non-toxic.
- Supply in dual cartridge, easy to use.
- Styrene free and solvent free.

## ACCESSORIES

- Static mixer nozzle.
- Dispenser.
- Nylon brush.
- Air blower.

## LIMITATIONS

- Do not cut or shorten static mixer nozzle.
- Do not install when substrate temperature is below 0 °C degree. Please consult **Rockmax**.
- For low ambient temperature, please consult **Rockmax** for more information.
- The concrete substrate must be cured and achieve design strength.
- Do not dilute material with any solvents or thinners.
- The hole must be properly clean and free from standing water.
- For diamond cored hole, must be roughen the hole surfaces before inject the material.

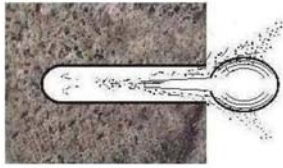
## INSTALLATION



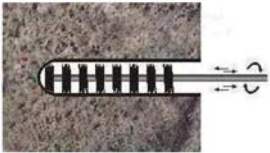
Drilling of hole with rotary hammer drill to the diameter and depth required. Hole diameter and depth must be depend on anchor size.

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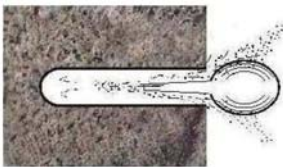
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Blow out the dust with compressed air or blow pump.



Clean the hole with nylon stiff or wire bristles. The diameter of nylon stiff brush must be larger than diameter of hole.



Blow out the dust with compressed air or blow pump again.



Open the cartridges.



Remove the red plug stopper out.



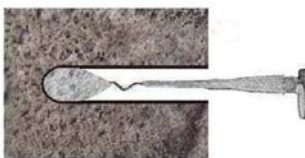
Screw the static mixer nozzle to the cartridge. Make sure screw it tightly.



Place the cartridge on to the dispenser.



To achieve complete mix of two components, we would recommended to inject the material out until the material from two cartridges are mixing in good uniform homogeneous (grey color). Do not use this pre-injected material.



Inject the resin into the hole star from bottom of hole to top of hole. Inject continuously and no air pockets.



Insert threaded rod or reinforcing steel bar into the injected hole. Push the stud into the hole using a slow twisting motion. Wipe away with excess material.



Wait for curing as per curing time table. Do not apply any load until the resin is fully cured properly.

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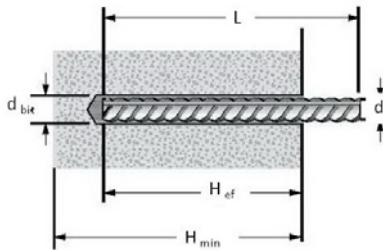
## CURING TIME

Temperature (°C)	Working time	Full cure
20 - 25	40 min	24 hrs
25 - 30	30 min	18 hrs
30 - 35	20 min	12 hrs
35 - 40	10 min	4 hrs

The above information is for guide line only.  
The cartridge temperature must be at least +10°C degree.

## REINFORCING BARS INSTALLATION SPECIFICATION

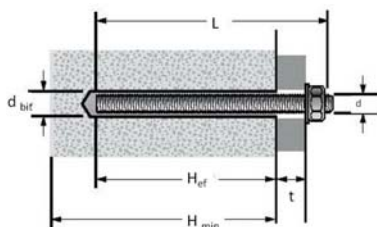
Rebar diameter (mm)	Drill bit diameter (mm)	Drilling depth (mm)	Ultimate load (kN)	Recommended load (kN)	Minimum thickness of base (mm)	Consumption per hole (ml)
10	13	90	36.4	12.1	113	6
12	16	125	64.7	21.6	157	14
16	20	145	97.9	32.6	182	22
20	25	170	137.9	46.0	213	42
25	32	225	242.7	80.9	282	75
28	37	260	276.4	92.1	325	130
32	40	290	320.5	106.9	363	195



Concrete compressive strength: 28 N/mm<sup>2</sup>  
Reinforcing steel bar grade SD40:  $f_y = 4000 \text{ kg/cm}^2$   
All load values are based on individual anchor without edge or spacing influence

## THREADED ROD STUD INSTALLATION SPECIFICATION

Threaded Rod No.	Drill bit diameter (mm)	Drilling depth (mm)	Ultimate load (kN)	Recommended load (kN)	Minimum thickness of base (mm)	Maximum fixture thickness (mm)	Maximum tighten torque (Nm)	Consumption per hole (ml)
M8	10	80	23.6	7.9	100	15	10	4
M10	13	90	31.8	10.6	115	20	20	5
M12	16	120	50.0	16.7	140	30	30	9
M16	20	145	66.6	22.2	160	40	60	16
M20	25	170	120.8	40.3	215	50	120	42
M24	28	210	175.3	58.4	270	55	200	65
M30	35	270	288.9	96.3	350	60	400	136
M36	40	330	333.8	111.3	413	70	1500	210



Concrete compressive strength: 28 N/mm<sup>2</sup>  
Steel grade 5.8:  $f_y = 4000 \text{ kg/cm}^2$   
All load values are based on individual anchor without edge or spacing influence

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## CLEANING

Clean all tools and equipment immediately after application by acetone, toluene, ketone. Cured material must be removed by mechanical means. Do not use any solvents to clean adhesive from skin.

## PACKAGING

400ml dual cartridges.

## STORAGE

Storage in shade and dry condition. Avoid frost, water, moisture and high temperature. Store from +5°C degree to +45°C degree.

## SHELF LIFE

24 months if kept following instructions.

## PRECAUTIONS

Avoid contact with skin and eyes. Avoid inhalation. Harmful effects may occur during application and care must be taken. Do not expose to flames or other sources of ignition. No smoking allowed. Ventilation must be provided. Some components of this product may be hazardous during mixing and application. Keep out of reach of children. MSDS is available upon request.

## CONTACT DETAIL

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### *IMPORTANT NOTE!!*

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