

**Product Information:**

# Power Anchor 287

**Styrenefree reactive resin mortar.**

**General description & applications:**


*Power Anchor 287 is a styrene free mortar of high quality for chemical mounting of treaded rods in various building materials.*

*Power Anchor 287 secures a high load.  
The special cartridge secures an easy and fast mixture of the product.*

*Power Anchor 287 can be used in building materials of cracked and non-cracked concrete, light concrete, massive bricks, cell bricks a.s.o.*

*The product is registered in the database for construction products that can be included in the Nordic Ecolabelled construction.*

*The product is approved according to:*

	
17	
DANA LIM A/S Kobenhavnsvej 229 DK-4600 Koge	
DoP: DLO02, DLO01	
DoP: DLO02, DLO01	
ETAG 001-5, Opt.1 ETAG 029 b,c,d,d/d,w/w	
1343	
Fastenings in concrete according to ETA-17/0437 and in masonry according to ETA-17/0416	



**Physical / chemical data:**

**Adhesive:**

Type: *Chemical curing, 2-component, styrene free*  
 Consistency: *Paste*  
 Durability: *18 months in an unopened package when stored dry and cool.*  
 Packaging:

Item no.	Size	Colour	TUN-no.
28732	300 ml	Grey	1880078

**Cured adhesive**

Tensile Strength: *See table page 4*  
 Elongation at break: *See table page 4*  
 Resistance: *Temperature: up to +80 °C, short term up to +120 °C  
 Climatic ageing: good  
 Chemical resistance: high*



## Instructions for concrete & solid stone:

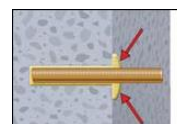
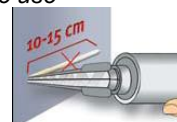
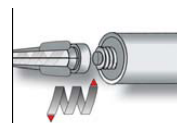
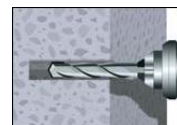
**Use:** Heavy load-carrying attachments in solid stone, concrete, porous concrete and light concrete  
Suitable for attachment points close to the edge, since anchoring is free of expansion forces  
Also suitable as repair mortar or adhesive mortar for concrete components. Attachment of anchor rods, threaded collars, reinforcement bars, profiles etc.

**Benefits:** Can be used in various solid stones, Galvanised steel, stainless steel, high-corrosion-resistant steel. Cartridge can be used up to the end of the validity date by replacing the static mixer or resealing cartridge with the sealing cap. Water-impermeable joint, i.e. no water can penetrate into the hole at the side of the adhesive compound. Accurate dosage of the compound by means of scaling.

**Temperature:** Can be applied when the temperature of the cartridge is +20 °C.

### Application:

1. Drill hole with percussion drill
2. Clean drill hole (blow out: 4x, brush out: 4x, blow out: 4x)
3. Screw mixer to cartridge
4. Squeeze out and discard approx. 10 cm of compound before use
5. Starting from the back end, fill hole completely with mortar
6. Push anchor up to base of hole whilst turning it slightly
7. Visual check of mortar
8. Observe curing time
9. Install component, apply torque



## Instructions for hollow brick:

**Use:** Used for medium-load applications. The injection plug can be used in hollow brick Hlz 4 to DIN 105, sand-lime hollow brick KSL 4 to DIN 106, hollow light concrete brick Hbl 2 to DIN 18 151 and hollow concrete brick Hbn 4 to DIN 18 153. Suitable for attachment of façades, projecting roofs, wooden constructions, metal constructions, metal profiles, consoles, railings, grills, sanitary fittings, pipe connections, cable runs etc.

**Benefits:** Secure anchoring in hollow brick; high load-bearing capacity. No expansion effect, allowing attachment points to be placed close to edges etc. Cartridge can be used up to the end of the validity date by replacing the static mixer or resealing cartridge with the sealing cap

**Temperature:** Can be used when the temperature of the cartridge is +20 °C.

### Application:

1. Drill hole without percussion drill



2. Clean drill hole (blow out: 2x, brush: 2x, blow out: 2x)



3. Screw mixer to cartridge



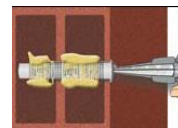
4. Squeeze out and discard approx. 10 cm of compound before use



5. Insert perforated sleeve



6. Starting from the back end, fill perforated sleeve with mortar

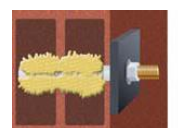


7. Push anchor up to base of sleeve whilst turning it slightly



8. Observe curing time

9. Install component, apply torque



## Performance data / standard applikationer for revnet og ikke-revnet beton:

Injection system Power Anchor 287 with threaded rod class 5.8

Highest allowable force for an anchor in concrete C20/25.

By dimensioning approval documents ETA-11/2017 is mandatory.

Thread type (5.8)	Min. effective anchor depth $h_{ef,min}$ [mm]	Min. effective anchor depth $h_{ef,max}$ [mm]	Min building part depth $h_{min}$ [mm]	Max Torque $T_{inst,max}$ [Nm]	Cracked Concrete				Non-cracked concrete			
					Allowable force $N_{perm}$ [kN]	Allow. Transverse Force $V_{perm}$ [kN]	Min mutual distance $S_{min}$ [mm]	Min distance to edge $C_{min}$ [mm]	Allowable force $N_{perm}$ [kN]	Allow. Transverse Force $V_{perm}$ [kN]	Min mutual distance $S_{min}$ [mm]	Min distance to edge $C_{min}$ [mm]
					M6	50	72	100	5,0			
M8	60	160	100	10,0					4,8	2,9	40	40
			190	10,0					6,6	5,1	40	40
M10	60		100	20,0	4,5	8,6	45	45	8,7	5,1	40	40
		200	230	20,0	13,8	8,6	45	45	8,2	8,6	45	45
M12	70		100	40,0	6,3	12,0	55	55	11,5	12,0	55	55
		240	270	40,0	20,1	12,0	55	55	20,1	12,0	55	55
M16	80		116	60,0	9,6	22,3	65	65	14,3	22,3	65	65
		320	356	60,0	37,4	22,3	65	65	37,4	22,3	65	65
M20	90		138	120,0	12,2	29,3	85	85	17,1	34,9	85	85
		400	448	120,0	54,9	34,9	85	85	58,3	34,9	85	85
M24	96		152	150,0					18,8	45,2	105	105
		480	536	150,0					84,0	50,9	105	105
M27	108		168	200,0					22,5	54,0	125	125
		540	600	200,0					109,3	65,7	125	125
M30	120		190	300,0					26,3	63,2	140	140
		600	670	300,0					133,6	80,6	140	140

## Curing Process

Material temperature	Curing started	Curing finalized Dry material	Curing finalized Wet material
-5°C	-	24 hours	48 hours
0°C	13min	180 min	360 min.
+5°C	9 min.	90 min.	180 min.
+10°C	5 min.	60 min.	120 min.
+20°C	4 min.	45 min.	90 min.
+30°C	2 min.	35 min.	70 min.

## Health and Safety:

For further information on safety, refer to product safety data sheet.

The information and data contained in this Product Information sheet are based on extensive laboratory testing and our practical experiences and are meant for helping the user to find optimum working methods. As the conditions at the user are beyond our control, we make no warranties concerning the results, achieved by the products. The information's in this Product Information sheet are typical values, intended as a guideline. They should not be regarded as product specifications. Please also refer to our standard sales conditions and terms of delivery.

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