

HILTI



Hilti HIT-HY 200-A Hilti HIT-HY 200-R

Instruction for use [en](#)

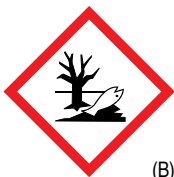
Mode d'emploi [fr](#)

Manual de instrucciones [es](#)

Instruções de utilização [pt](#)



(A, B)



(B)

Warning







Contains: hydroxypropylmethacrylate, (A)
dibenzoyl peroxide (B)







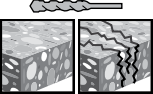

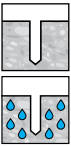

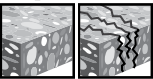



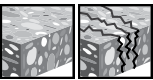


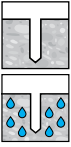

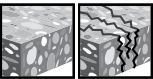


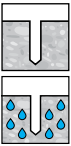

May cause an allergic skin reaction. (A, B)
Causes serious eye irritation. (B)
Very toxic to aquatic life. (B)

ICC
ES™

ICC ESR 3187



<p>en</p>	<p>Adhesive anchoring system for rebar and anchor fastenings in concrete. Read the safety precautions, safety data sheet, and the product information before use. Read the safety precautions and the product information of the accessories before use.</p>	<p>→ </p>
<p>fr</p>	<p>Mortier de scellement pour ancrage d'armatures métalliques et de tiges filetées dans le béton. Avant utilisation, bien lire les prescriptions de sécurité, la fiche de données de sécurité ainsi que la fiche d'information produit. Avant d'utiliser l'accessoire, bien lire les prescriptions de sécurité ainsi que la fiche d'information produit.</p>	<p>→ </p>
<p>es</p>	<p>Resina de inyección para barras corrugadas y varilla roscada. Lea las indicaciones de seguridad, la hoja de datos de seguridad y la información del producto antes de utilizarlo. Lea las indicaciones de seguridad y la información del producto antes de utilizar los accesorios.</p>	<p>→ </p>
<p>pt</p>	<p>Buchas químicas para ferros de armadura e barras roscadas em betão. Antes de utilizar, ler as regras de segurança, a ficha técnica de segurança e os dados informativos sobre o produto. Antes de utilizar os acessórios, ler as regras de segurança e os dados informativos sobre o produto.</p>	<p>→ </p>

						
1		HIT-Z 		$\frac{7}{16}'' \dots \frac{7}{8}''$ 10 ... 22 mm	$2\frac{3}{8}'' \dots 8\frac{1}{2}''$ 60 ... 220 mm	
2		HIT-Z 		$\frac{7}{16}'' \dots \frac{7}{8}''$ 10 ... 22 mm	$2\frac{3}{8}'' \dots 8\frac{1}{2}''$ 60 ... 220 mm	
3		HIT-Z HIT-V HAS HAS HIS-N Rebar  		$\frac{1}{2}'' \dots 1\frac{1}{8}''$ 12 ... 32 mm	$2\frac{3}{8}'' \dots 39\frac{3}{8}''$ 60 ... 1000 mm	
4		HIT-V HAS HIS-N Rebar  		$\frac{7}{16}'' \dots 1\frac{1}{2}''$ 10 ... 40 mm	$2\frac{3}{8}'' \dots 75\frac{1}{2}''$ 60 ... 1920 mm	



en

Dry concrete

Water saturated concrete

Waterfilled borehole in concrete

fr

Béton sec

Béton saturé d'eau

Trou dans le béton rempli d'eau

es

Hormigón seco

Hormigón saturado de agua

Taladro lleno de agua en hormigón

pt

Betão seco

Betão saturado de água

Furo em betão cheio de água



en

HIT-Z
HIT-Z-R

Threaded rod
Threaded sleeve

Rebar

fr

HIT-Z
HIT-Z-R

Tige filetée
Douille filetée

Armature métallique

es

HIT-Z
HIT-Z-R

Varilla roscada
Manguito roscado

Barras corrugadas para armado

pt

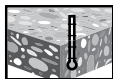
HIT-Z
HIT-Z-R

Barra roscada
Casquilho roscado

Ferros de armadura

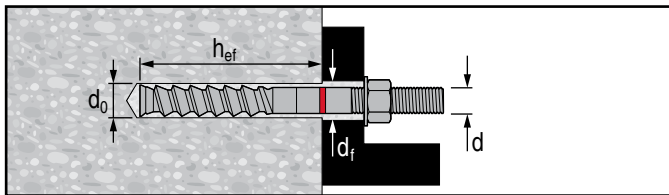



en	Uncracked concrete	Cracked concrete	Hammer drilling	Hollow drill bit	Diamond coring
fr	Béton non lézardé	Béton lézardé	Perçage avec percussion	Foret creux	Forage au diamant
es	Hormigón no fisurado	Hormigón fisurado	Taladro con percusión	Taladro con broca hueca y aspiración	Taladro con diamante
pt	Betão não fissurado	Betão fissurado	Perfurar de martelo	Broca de coroa oca	Perfurar com equipamento diamantado


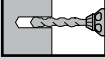


en	Temperature of concrete	cartridge temperature	Working time	Curing time
fr	Température du béton	Température de la cartouche	Temps de manipulation	Temps de durcissement
es	Temperatura del hormigón	Temperatura del cartucho	Tiempo de ajuste	Tiempo de fraguado
pt	Temperatura do betão	Temperatura do cartucho	Tempo de trabalho	Tempo de cura total

HIT-Z, -R

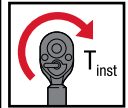
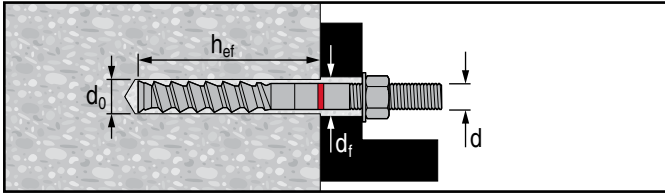



 $\varnothing d$ [inch]	$\varnothing d_0$ [inch]	h_{ef} [inch]	T_{inst} [ft-lb]	T_{inst} [Nm]
$\frac{3}{8}$	$\frac{7}{16}$	$2\frac{3}{8} \dots 4\frac{1}{2}$	15	20
$\frac{1}{2}$	$\frac{9}{16}$	$2\frac{3}{4} \dots 6$	30	40
$\frac{5}{8}$	$\frac{3}{4}$	$3\frac{3}{4} \dots 7\frac{1}{2}$	60	80
$\frac{3}{4}$	$\frac{7}{8}$	$4 \dots 8\frac{1}{2}$	110	150

d_f [inch]	HIT-Z, -R	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
d_{f1}		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{13}{16}^*$	$\frac{15}{16}^*$
d_{f2}		$\frac{7}{16}$	$\frac{9}{16}$	$\frac{11}{16}$	$\frac{13}{16}$



HIT-Z, -R



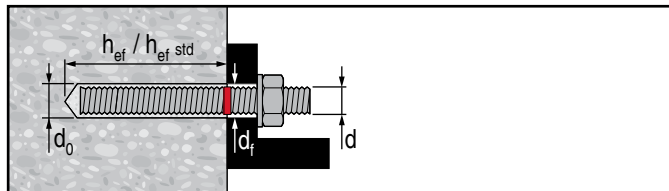
 $\varnothing d$ [mm]	$\varnothing d_0$ [mm]	h_{ef} [mm]	T_{inst} [Nm]
M8	10	60...96	10
M10	12	60...120	25
M12	14	70*...144	40
M16	18	96...192	80
M20	22	100...220	150

d_f [mm]	HIT-Z, -Z-R	M8	M10	M12	M16	M20
d_{f1}		11	14	16	20*	24*
d_{f2}		9	12	14	18	22



** For ETA $h_{ef\ min} = 60$ mm

HAS/HIT-V

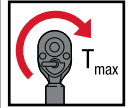
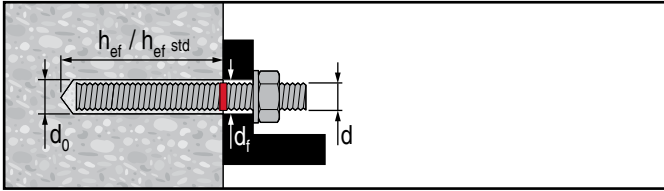



$\emptyset d$ [inch]	$\emptyset d_0$ [inch]	$h_{ef\ std}$ [inch]	h_{ef} [inch]	h_{ef} [mm]	T_{max} [ft-lb]	T_{max} [Nm]
3/8	7/16	3 3/8	2 3/8 ... 7 1/2	60...191	15	20
1/2	9/16	4 1/2	2 3/4 ... 10	70...254	30	41
5/8	3/4	5 5/8	3 1/8 ... 12 1/2	79...318	60	81
3/4	7/8	6 3/4	3 1/2 ... 15	89...381	100	136
7/8	1	7 7/8	3 1/2 ... 17 1/2	89...445	125	169
1	1 1/8	9	4 ... 20	102...508	150	203
1 1/4	1 3/8	11 1/4	5 ... 25	127...635	200	271

d_i [inch]	HAS/HIT-V	3/8	1/2	5/8	3/4	7/8	1	1 1/4
d_{f1}		1/2	5/8	13/16*	15/16*	1 1/8*	1 1/4*	1 1/2*
d_{f2}		7/16	9/16	11/16	13/16	15/16	1 1/8	1 3/8



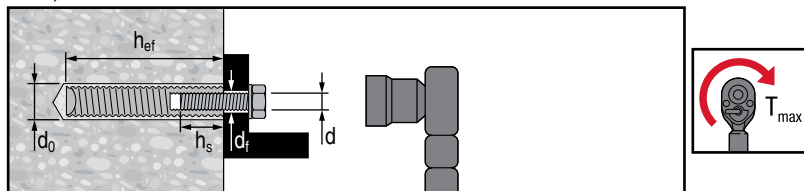
HIT-V




 Ø d [mm]	Ø d ₀ [mm]	h _{ef} std [mm]	h _{ef} [mm]	T _{max} [Nm]
M8	10	80	60...160	10
M10	12	90	60...200	20
M12	14	110	70...240	40
M16	18	125	80...320	80
M20	22	170	90...400	150
M24	28	210	96...480	200
M27	30	240	108...540	270
M30	35	270	120...600	300

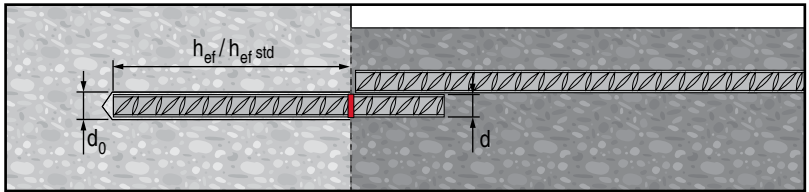
d _f [mm]	HIT-V	M8	M10	M12	M16	M20	M24	M27	M30
d _{f1}		11	14	16	20*	24*	30*	32*	37*
d _{f2}		9	12	14	18	22	26	30	33



HIS-N, -RN


 Ø d [inch]	Ø d ₀ [inch]	h _{ef} [inch]	h _{ef} [mm]	Ø d _f [inch]	h _s [inch]	h _s [mm]	T _{max} [ft-lb]	T _{max} [Nm]
3/8	1 1/16	4 3/8	110	7/16	3/8... 15/16	10...25	15	20
1/2	7/8	5	125	9/16	1/2... 1 3/16	12...30	30	41
5/8	1 1/8	6 3/4	170	11/16	5/8... 1 1/2	16...40	60	81
3/4	1 1/4	8 1/8	205	13/16	3/4... 1 7/8	20...50	100	136

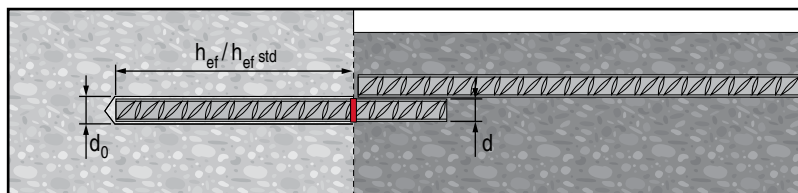
 Ø d [mm]	Ø d ₀ [mm]	h _{ef} [mm]	Ø d _f [mm]	h _s [mm]	T _{max} [Nm]
M8	14	90	9	8...20	10
M10	18	110	12	10...25	20
M12	22	125	14	12...30	40
M16	28	170	18	16...40	80
M20	32	205	22	20...50	150

Rebar

US Rebar

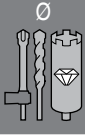


Ø d	Ø d ₀ [inch]	h _{ef} [inch]	
		HY 200-A	HY 200-R
#3	1/2	2 3/8...22 1/2	2 3/8...22 1/2
#4	5/8	2 3/4...30	2 3/4...30
#5	3/4	3 1/8...37 1/2	3 1/8...37 1/2
#6	7/8	3 1/2...15	3 1/2...15
	1	–	15...45
#7	1	3 1/2...17 1/2	3 1/2...17 1/2
	1 1/8	–	17 1/2...52 1/2
#8	1 1/8	4...20	4...20
	1 1/4	–	20...60
#9	1 3/8	4 1/2...22 1/2	4 1/2...67 1/2
#10	1 1/2	5...25	5...75

CA Rebar

Ø d	Ø d ₀ [inch]	h _{ef} [mm]	
		HY 200-A	HY 200-R
10 M	9/16	70...678	70...678
15 M	3/4	80...960	80...960
20 M	1	90...390	90...1170
25 M	1 1/4	101...504	101...1512
30 M	1 1/2	120...598	120...1794




Rebar

EU Rebar




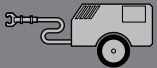
Ø d [mm]	Ø d ₀ [mm]	h _{ef} [mm]	
		HY 200-A	HY 200-R
8	12	60...480	60...480
10	14	60...600	60...600
12	16	70...720	70...720
14	18	75...840	75...840
16	20	80...960	80...960
18	22	85...360	85...1080
20	25	90...400	90...1200
22	28	95...440	95...1320
24	32	96...480	96...1440
25	32	100...500	100...1500
26	35	104...520	104...1560
28	35	112...560	112...1680
30	37	120...600	120...1800
32	40	128...640	128...1920




	HAS HIT-V	HIS-N	Rebar	HIT-Z			HIT-DL	HIT-OHC
d_0 [inch]	d [inch]				[inch]	[inch]	[inch]	Art. No.
7/16	3/8	-	-	3/8	7/16	-	-	387551
1/2	-	-	#3	-	1/2	1/2	1/2	
9/16	1/2	-	10M	1/2	9/16	9/16	9/16	
5/8	-	-	#4	-	5/8	5/8	9/16	
11/16	-	3/8	-	-	11/16	11/16	11/16	
3/4	5/8	-	15M #5	5/8	3/4	3/4	3/4	387552
7/8	3/4	1/2	#6	3/4	7/8	7/8	7/8	
1	7/8	-	20M #6 #7	-	1	1	1	
1 1/8	1	5/8	#7 #8	-	1 1/8	1 1/8	1	
1 1/4	-	3/4	25M #8	-	1 1/4	1 1/4	1	
1 3/8	1 1/4	-	#9	-	1 3/8	1 3/8	1 3/8	387552
1 1/2	-	-	30M #10	-	1 1/2	1 1/2	1 3/8	

 HIT-DL: $h_{ef} > 10''$

 HIT-RB: $h_{ef} > 20d$

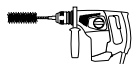

	HIT-RE-M		HIT-OHW
	Art. No.		Art. No.
Hilti VC	337111	HDM 330 HDM 500 HDE 500-A18	387550



			
d_0 [inch]	[inch]	Art. No. 381215	
7/16" ... 1 1/8"	2 3/8" ... 20"	✓	≥ 6 bar/90 psi @ 6 m³/h
1 1/4" ... 1 1/2"	4" ... 25"	-	≥ 140 m³/h / ≥ 82 CFM




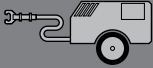
	HIT-V	HIS-N	Rebar	HIT-Z			HIT-DL	HIT-OHC
d_0 [mm]	d [mm]				[mm]	[mm]		Art. No.
10	8	-	-	8	10	-	-	387551
12	10	-	8	10	12	12	12	
14	12	8	10	12	14	14	14	
16	-	-	12	-	16	16	16	
18	16	10	14	16	18	18	18	
20	-	-	16	-	20	20	20	
22	20	12	18	20	22	22	20	
25	-	-	20	-	25	25	25	387552
28	24	16	22	-	28	28	25	
30	27	-	-	-	30	30	25	
32	-	20	24/25	-	32	32	32	
35	30	-	26/28	-	35	35	32	
37	-	-	30	-	37	37	32	
40	-	-	32	-	40	40	32	

HIT-DL: $h_{ef} > 250$ mm


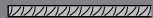





HIT-RB: $h_{ef} > 20d$










	HIT-RE-M		HIT-OHW
Hilti VC	Art. No.	HDM 330 / 500 HDE 500-A18	Art. No.
	337111		387550

			
d_0 [mm]	[mm]	Art. No. 381215	
10...32	60...500	✓	≥ 6 bar/90 psi
35...40	100...640	-	≥ 140 m³/h





 HIT-HY 200-A

		HIT-V, HAS HIS-N Rebar 		HIT-Z 	
[°C]	[°F]	 t _{work}	 t _{cure}	 t _{work}	 t _{cure}
-10...-5	14...23	1,5 h	7 h	–	–
-4...0	24...32	50 min	4 h	–	–
1...5	33...41	25 min	2 h	–	–
6...10	42...50	15 min	75 min	15 min	75 min
11...20	51...68	7 min	45 min	7 min	45 min
21...30	69...86	4 min	30 min	4 min	30 min
31...40	87...104	3 min	30 min	3 min	30 min





 HIT-HY 200-R

		HIT-V, HAS HIS-N Rebar 		HIT-Z 	
[°C]	[°F]	 t _{work}	 t _{cure}	 t _{work}	 t _{cure}
-10...-5	14...23	3 h	20 h	–	–
-4...0	24...32	2 h	8 h	–	–
1...5	33...41	1 h	4 h	–	–
6...10	42...50	40 min	2,5 h	40 min	2,5 h
11...20	51...68	15 min	1,5 h	15 min	1,5 h
21...30	69...86	9 min	1 h	9 min	1 h
31...40	87...104	6 min	1 h	6 min	1 h

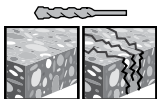

Rebar $h_{ef} \geq 20d$


			h_{ef}		
HIT-HY 200-A HIT-HY 200-R	HDM, HDE	\leq US #5	12 1/2 ... 37 1/2 [inch] 320 ... 960 [mm]	14°F...104°F -10°C...40°C	50°F...86°F 10°C...30°C
		\leq EU 16mm	320 ... 960 [mm]		
		\leq CAN 15M	320 ... 960 [mm]		
HIT-HY 200-A HIT-HY 200-R	HDE	\leq US #5	12 1/2 ... 37 1/2 [inch] 320 ... 960 [mm]	14°F...104°F -10°C...40°C	32°F...86°F 0°C...30°C
		\leq EU 16mm	320 ... 960 [mm]		
		\leq CAN 15M	320 ... 960 [mm]		
HIT-HY 200-R	HDE	\leq US #8	20 ... 60 [inch] 500 ... 1500 [mm]	32°F...104°F 0°C...40°C	32°F...86°F 0°C...30°C
		\leq EU 25mm	504 ... 1512 [mm]		
		\leq CAN 25M	504 ... 1512 [mm]		
HIT-HY 200-R	HDE	\leq US #10	25 ... 75 [inch] 640 ... 1920 [mm]	50°F...86°F 10°C...30°C	50°F...68°F 10°C...20°C
		\leq EU 32mm	598 ... 1794 [mm]		
		\leq CAN 30M	598 ... 1794 [mm]		



			h_{ef}		
HIT-HY 200-A HIT-HY 200-R	HDM, HDE	\leq US #5	12 1/2 ... 37 1/2 [inch] 320 ... 960 [mm]	14°F...104°F -10°C...40°C	50°F...86°F 10°C...30°C
		\leq EU 16mm	320 ... 960 [mm]		
		\leq CAN 15M	320 ... 960 [mm]		
HIT-HY 200-A HIT-HY 200-R	HDE	\leq US #5	12 1/2 ... 37 1/2 [inch] 320 ... 960 [mm]	14°F...104°F -10°C...40°C	32°F...86°F 0°C...30°C
		\leq EU 16mm	320 ... 960 [mm]		
		\leq CAN 15M	320 ... 960 [mm]		
HIT-HY 200-R	HDE	\leq US #8	20 ... 39 3/8 [inch] 500 ... 1000 [mm]	32°F...104°F 0°C...40°C	32°F...86°F 0°C...30°C
		\leq EU 25mm	504 ... 1000 [mm]		
		\leq CAN 25M	504 ... 1000 [mm]		

1

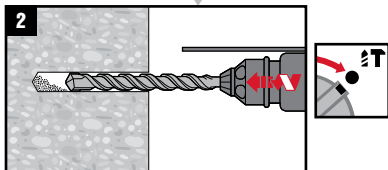
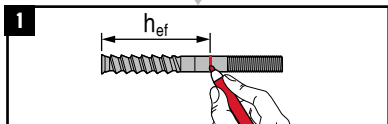
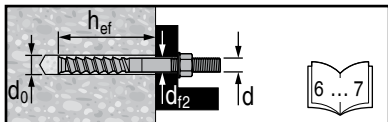
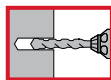
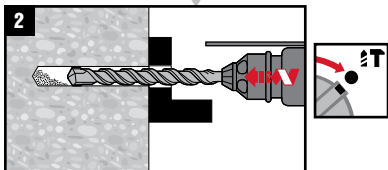
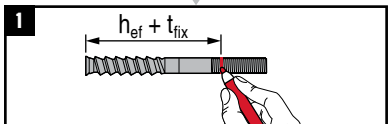
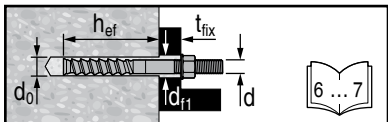
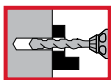


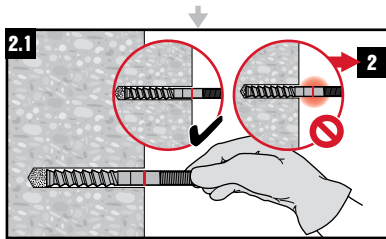
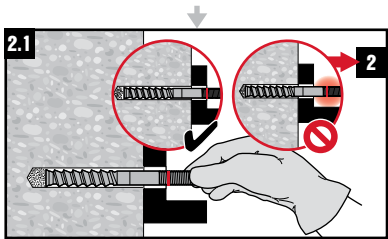
HIT-Z




d_0 :
 $7/16'' \dots 7/8''$
 10 ... 22 mm

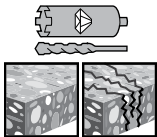
h_{ef} :
 $2 \frac{3}{8}'' \dots 8 \frac{1}{2}''$
 60 ... 220 mm





	<p>A</p>	<p>D</p>
	<p>↓</p>	<p>↓</p>

2

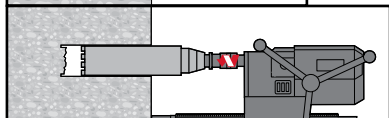
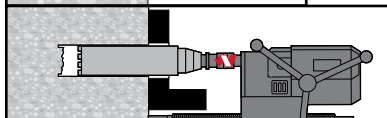
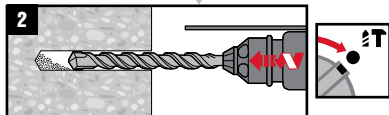
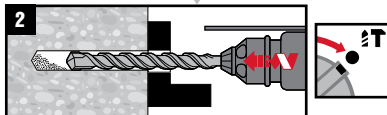
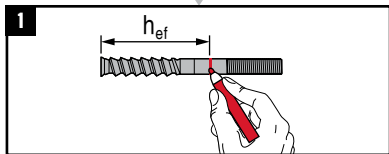
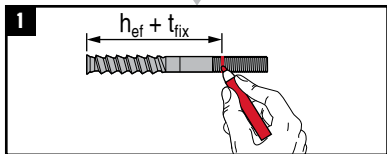
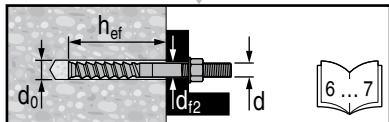
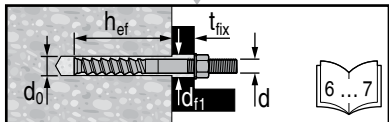
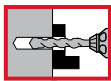


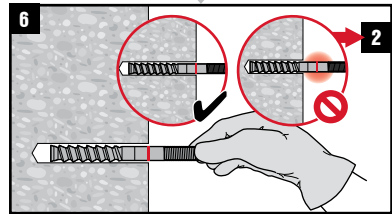
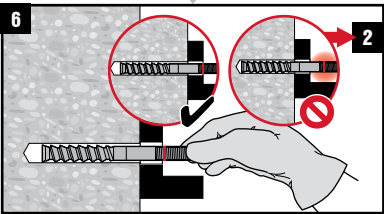
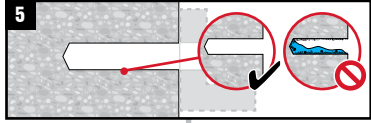
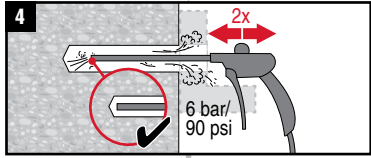
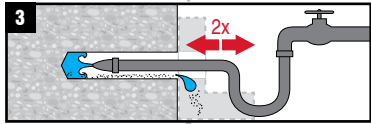
HIT-Z

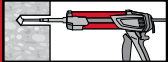







d_0 :
 $7/16'' \dots 7/8''$
 10 ... 22 mm

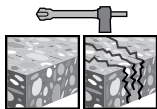
h_{ef} :
 $2\ 3/8'' \dots 8\ 1/2''$
 60 ... 220 mm



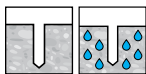


	B	D
		
		

3

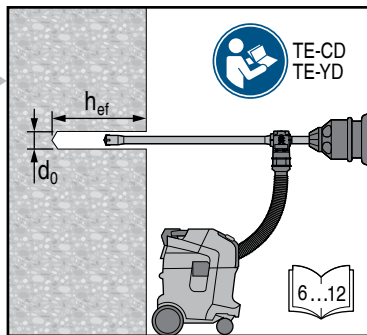


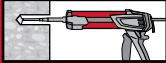
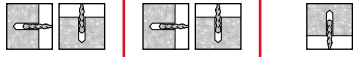

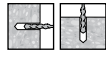






HIT-Z
 HAS/HIT-V
 HIS-N
 Rebar



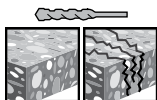
d_0 :
 $1/2'' \dots 1 1/8''$
 12 ... 32 mm

h_{ef} :
 $2 3/8'' \dots 39 3/8''$
 60 ... 1000 mm



	B	C	D
			
	$2 3/8'' \dots 9 7/8''$ 60 ... 250 mm	$2 3/8'' \dots 75 1/2''$ 60 ... 1920 mm	$2 3/8'' \dots 75 1/2''$ 60 ... 1920 mm
			

4



HIT-V

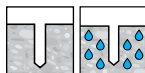
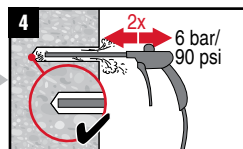
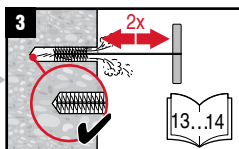
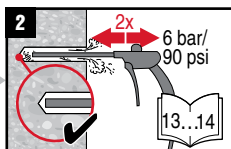
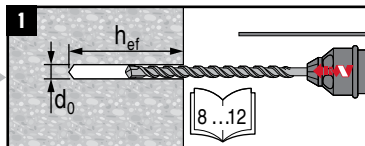
HAS



HIS-N



Rebar


 d_0 :
 $7/16" \dots 1\ 1/2"$
 $10 \dots 40 \text{ mm}$
 h_{ef} :
 $2\ 3/8" \dots 75\ 1/2"$
 $60 \dots 1920 \text{ mm}$


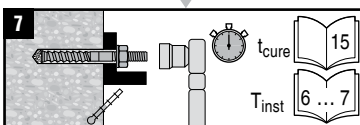
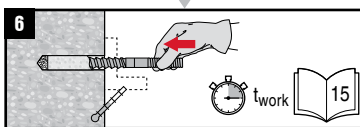
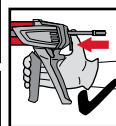
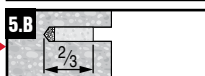
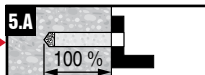
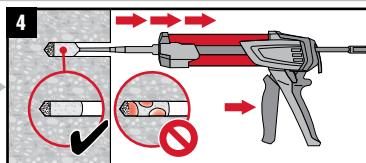
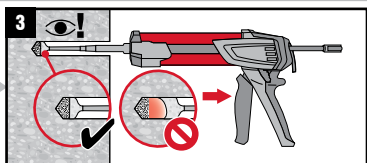
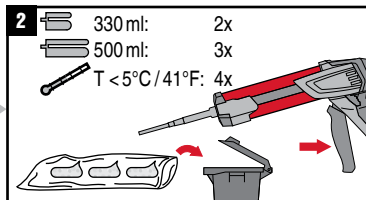
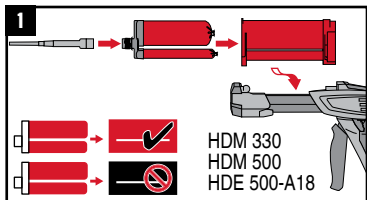
	B	C	D
	$2\ 3/8" \dots 9\ 7/8"$ $60 \dots 250 \text{ mm}$	$2\ 3/8" \dots 75\ 1/2"$ $60 \dots 1920 \text{ mm}$	$2\ 3/8" \dots 75\ 1/2"$ $60 \dots 1920 \text{ mm}$

A

h_{ef} :
 $2\frac{3}{8}'' \dots 8\frac{1}{2}''$
 60...220 mm

HIT-Z**HIT-RE-M**

13..14



B

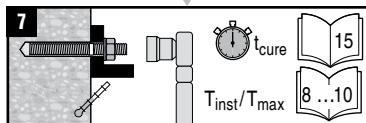
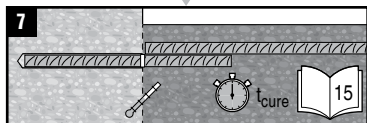
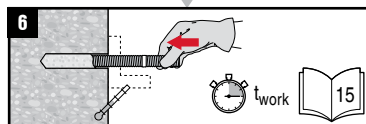
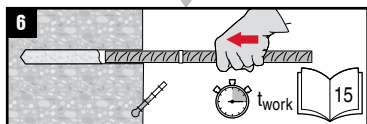
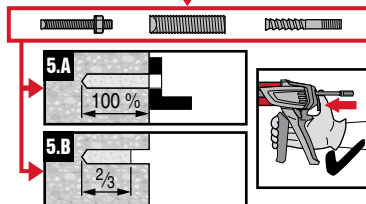
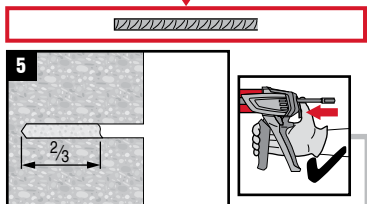
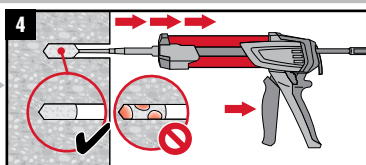
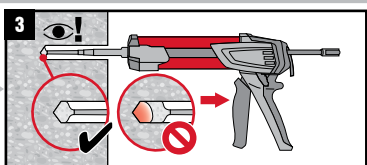
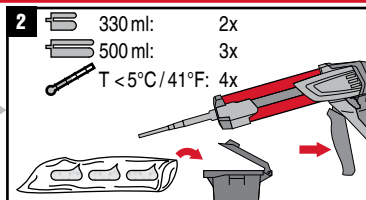
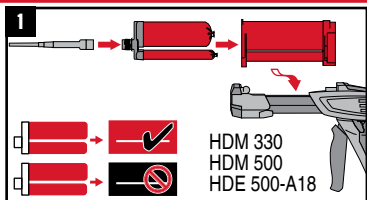
h_{ef} :
 $2\frac{3}{8}'' \dots 9\frac{7}{8}''$
 60...250 mm

HIT-Z
 HAS/HIT-V
 HIS-N
 Rebar






HIT-RE-M →




13...14

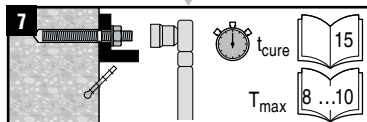
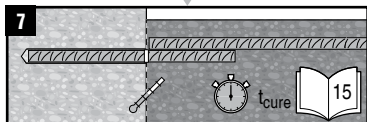
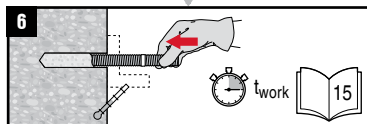
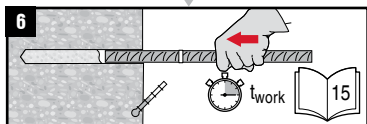
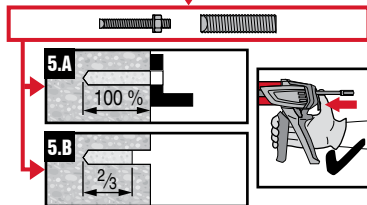
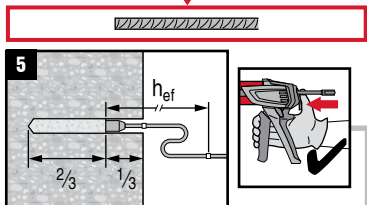
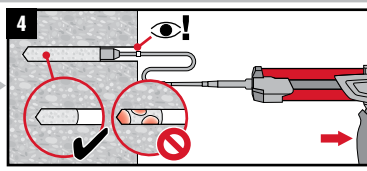
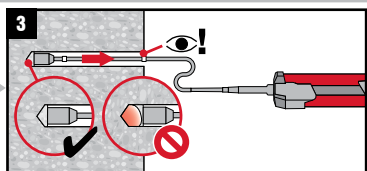
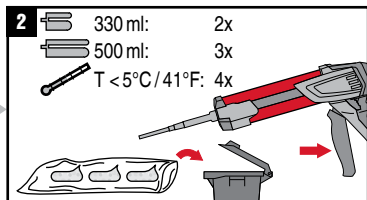
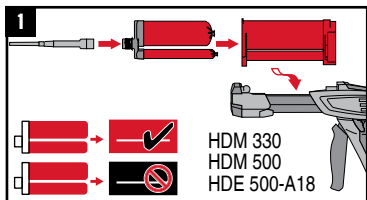


C

h_{ef} :
 $2\frac{3}{8}'' \dots 75\frac{1}{2}''$
 60...1920 mm




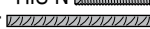
HAS/HIT-V 
 HIS-N 
 Rebar 

HIT-RE-M 
 HIT-SZ  →  13...14

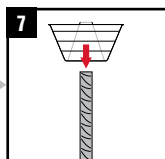
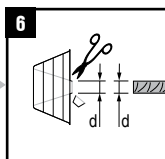
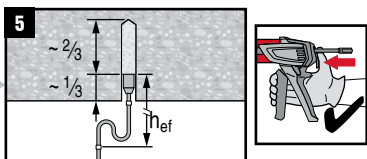
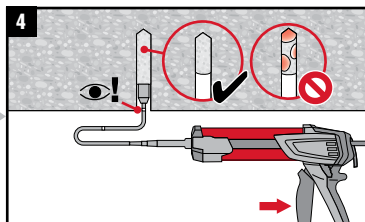
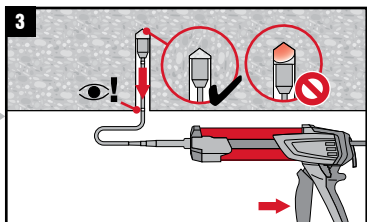
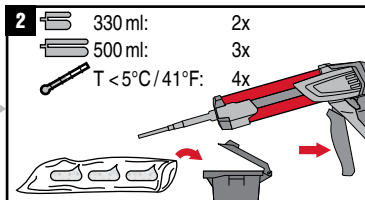
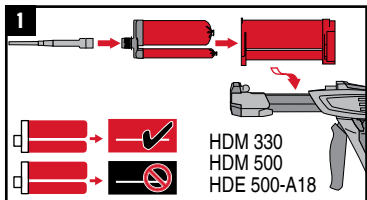


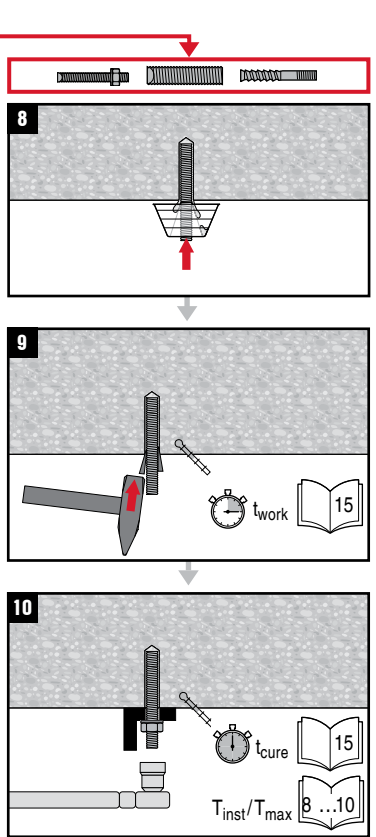
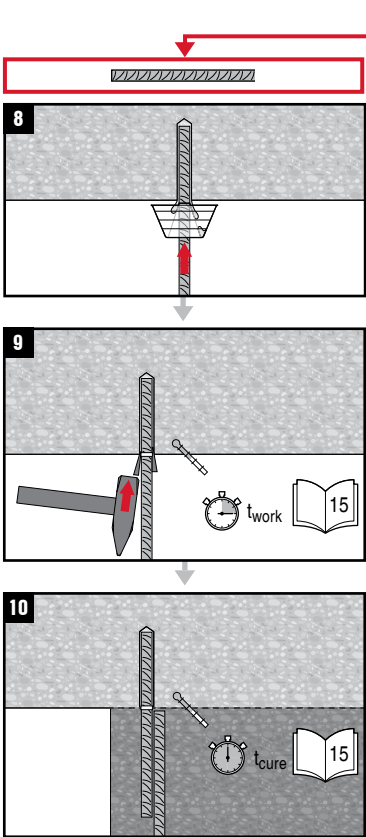
D

h_{ef} :
 $2\frac{3}{8}'' \dots 75\frac{1}{2}''$
 60...1920 mm

HIT-Z 
 HAS/HIT-V 
 HIS-N 
 Rebar 

HIT-RE-M
 HIT-SZ
 HIT-OHW
 HIT-OHC





Adhesive anchoring system for rebar and anchor fastenings in concrete.

Hilti HIT-HY 200-A

Contains: Hydroxypropylmethacrylat (A), Dibenzoylperoxid (B)



(A, B)



(B)



Warning

H317 May cause an allergic skin reaction. (A, B)
H319 Causes serious eye irritation. (B)
H400 Very toxic to aquatic life. (B)

P262 Do not get in eyes, on skin or on clothing.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.


P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P337+313 If eye irritation persists: Get medical advice/attention.

Disposal considerations

Empty packs:

- ▶ Leave the mixer attached and dispose of via the local Green Dot recovery system 
- ▶ or EAK waste material code: 150102 plastic packaging

Full or partially emptied packs:

- ▶ Must be disposed of as special waste in accordance with official regulations.
 - EAK waste material code: 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances.
 - or EAK waste material code: 20 01 27* paint, inks, adhesives and resins containing dangerous substances.

Content: 330 ml / 11.1 fl.oz. 500 ml / 16.9 fl. oz **Weight:** 590 g / 20.8 oz 890 g / 31.4 oz

Failure to observe these installation instructions, use of non-Hilti anchors, poor or questionable base material conditions, or unique applications may affect the reliability or performance of the fastenings.

Product Information

- Always keep these instructions together with the product even when given to other persons.
- **Material Safety Data Sheet:** Review the MSDS before use.
- **Check expiration date:** See imprint on foil pack manifold (month/year). Do not use expired product.
- **Foil pack temperature during usage:** 0 °C to 40 °C / 32 °F to 104 °F.
- **Base material temperature at time of installation:**
 - HAS/HIT-V, HIS, Rebar:** between -10 °C and 40 °C / 14 °F and 104 °F.
 - HIT-Z:** between +5°C and 40°C / 41°F and 104°F.
- **Conditions for transport and storage:** Keep in a cool, dry and dark place between 5 °C and 25 °C / 41 °F and 77 °F.
- For any application not covered by this document / beyond values specified, please contact Hilti.
- **Partly used foil packs must remain in the cassette** and has to be used within **4 weeks**. Leave the mixer attached on the foil pack manifold and store within the cassette under the recommended storage conditions. If reused, attach a new mixer and discard the initial quantity of anchor adhesive.

NOTICE

▲ The surface of the HIT-Z anchor rod must not be altered in any way.

▲ Improper handling may cause mortar splashes.

- Always wear safety glasses, gloves and protective clothes during installation.
- Never start dispensing without a mixer properly screwed on.
- Attach a new mixer prior to dispensing a new foil pack (ensure snug fit).
- Use only the type of mixer (HIT-RE-M) supplied with the adhesive. Do not modify the mixer in any way.
- Never use damaged foil packs and/or damaged or unclean foil pack holders (cassettes).

▲ Poor load values / potential failure of fastening points due to inadequate borehole cleaning.

- The boreholes must be free of debris, dust, water, ice, oil, grease and other contaminants prior to adhesive injection.
- For blowing out the borehole – blow out with oil free air until return air stream is free of noticeable dust.
- For flushing the borehole – flush with water line pressure until water runs clear.
- For brushing the borehole – only use specified wire brush. The brush must resist insertion into the borehole – if not the brush is too small and must be replaced.

▲ Ensure that boreholes are filled from the back of the borehole without forming air voids.

- If necessary use the accessories / extensions to reach the back of the borehole.
- For overhead applications use the overhead accessories HIT-SZ and take special care when inserting the fastening element. Excess adhesive may be forced out of the borehole. Make sure that no mortar drips onto the installer.

▲ Not adhering to these setting instructions can result in failure of fastening points!

Mortier de scellement pour ancrage de chevilles et d'armatures dans le béton.

Hilti HIT-HY 200-A

Contient : hydroxypropylmethacrylate (A), peroxyde de dibenzoyle (B)



(A, B)



(B)



Attention

H317 Peut provoquer une allergie cutanée. (A, B)
H319 Provoque une sévère irritation des yeux. (B)
H400 Très toxique pour les organismes aquatiques. (B)

P262 Éviter tout contact avec les yeux, la peau ou les vêtements.

P280 Porter des gants de protection/des vêtements de protection/un équipement de protection des yeux/du visage.

P302 + P352 EN CAS DE CONTACT AVEC LA PEAU : Laver abondamment à l'eau et au savon.
P305 + P351 + P338 EN CAS DE CONTACT AVEC LES YEUX : Rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.

P333+313 En cas d'irritation ou d'éruption cutanée : consulter un médecin.

P337+313 Si l'irritation oculaire persiste : consulter un médecin.

Indications de recyclage

Emballages vides :

- ▶ Laisser la buse mélangeuse vissée et procéder à l'élimination par le biais du système de collecte national "Point Vert".
- ▶ ou code déchets EAK : 150102 Emballages en plastique



Emballages pleins ou à moitié vides :

- ▶ Les apporter à un centre de collecte des matières dangereuses conformément aux dispositions administratives.
 - Code déchets EAK : 08 04 09* Résidus de colles et composants pour joints, contenant des solvants organiques ou d'autres substances dangereuses.
 - ou code déchets EAK : 20 01 27* Peintures, encres d'impression, colles et résines artificielles, contenant des substances dangereuses.

Contenu : 330 ml / 11.1 fl.oz. 500 ml / 16.9 fl. oz **Poids :** 590 g / 20.8 oz 890 g / 31.4 oz

Le non-respect de ces instructions d'installation, l'utilisation de chevilles non distribuées par Hilti, un matériau support de mauvaise qualité ou de qualité douteuse, ou encore des utilisations particulières peuvent avoir des conséquences néfastes sur la fiabilité ou les performances des ancrages.

Information produit

- Le présent mode d'emploi doit toujours être conservé avec le produit, même s'il est confié à une autre personne.
- Avant toute utilisation, prendre connaissance de la **fiche de données de sécurité**.
- **Contrôler la date de péremption** (mois/année) imprimée sur le raccord de la cartouche. Ne plus utiliser le produit lorsque la date de péremption est dépassée.
- **Température des cartouches souples en cours d'utilisation** : entre 0 °C et 40 °C / 32 °F et 104 °F.
- **Température du matériau support en cours d'utilisation** :
HAS/HIT-V, HIS, Rebar : entre -10 °C et 40 °C / 14 °F et 104 °F.
HIT-Z : entre +5 °C et 40 °C / 41 °F et 104 °F.
- **Conditions de transport et de stockage** : dans un endroit frais, sec et à l'abri de la lumière à une température de +5 °C à 25 °C / 41 °F à 77 °F.
- En cas d'applications qui ne sont pas décrites dans le présent mode d'emploi ou hors plage de valeurs spécifiées, s'adresser à Hilti.
- **Les cartouches souples entamées doivent rester dans le porte-cartouches** et être réutilisées dans les **quatre semaines**. Laisser la buse mélangeuse vissée et stocker la cartouche souple dans le porte-cartouches conformément à la réglementation. Avant réutilisation, visser une nouvelle buse mélangeuse et jeter le mortier extrudé lors des premières pressions.

AVIS

▲ La surface de la tige d'ancrage HIT-Z ne doit pas être modifiée.

▲ En cas de manquement non conforme, il y a risque de projection du mortier.

- Lors du travail, porter une protection des yeux, des gants et des vêtements de protection!
- Ne jamais commencer l'extrusion si la buse mélangeuse n'est pas vissée!
- Avant de commencer l'extrusion d'une nouvelle cartouche souple, visser une nouvelle buse mélangeuse. Vérifier qu'elle est bien en place.
- Utiliser exclusivement le type de buse fourni avec le mortier (HIT-RE-M). Ne modifier la buse mélangeuse en aucun cas.
- Ne jamais utiliser de cartouches souples endommagées ni de porte-cartouches endommagés ou très encrassés.

▲ Mauvaise fixation/défaillance du chevillage à cause d'un nettoyage insuffisant du trou.

- Avant de procéder à l'injection, s'assurer que le trou de perçage est exempt de débris de perçage, poussières, eau, glace, huile, graisse ou autres contaminants.
- Soufflage du trou foré – avec de l'air exempt d'huile jusqu'à ce que l'air sortant soit exempt de toute poussière.
- Rinçage du trou foré – rincer le trou à l'eau à pression de conduite normale jusqu'à ce que de l'eau propre ressorte.
- Brossage du trou foré – uniquement avec un écouvillon en acier adapté. Une résistance doit se faire sentir lors de l'insertion de l'écouvillon dans le trou – si ce n'est pas le cas, l'écouvillon est trop petit et doit être remplacé.

▲ Veiller à ce que le remplissage se fasse à partir du fond du trou pour éviter la formation de bulles d'air.

- Si nécessaire, utiliser des prolongateurs pour atteindre le fond du trou.
- En cas d'applications au plafond, utiliser l'accessoire HIT-SZ et faire particulièrement attention lors de l'introduction de l'élément de fixation. L'excédent de mortier peut ressortir du trou foré. Veiller alors à ce que celui-ci ne goutte pas sur l'opérateur.

▲ Le non-respect des instructions peut entraîner une défaillance du chevillage!

Resina de inyección para la fijación de anclajes y tacos en hormigón.

Hilti HIT-HY 200-A

Contiene: metacrilato de hidroxipropilo (A), peróxido de dibenzoilo (B)



(A, B)



(B)



Atención

- H317 Puede provocar una reacción alérgica en la piel. (A, B)
H319 Provoca irritación ocular grave. (B)
H400 Muy tóxico para los organismos acuáticos. (B)

- P262 Evitar el contacto con los ojos, la piel o la ropa.
P280 Llevar guantes/prendas/gafas/máscara de protección.

- P302 + P352 EN CASO DE CONTACTO CON LA PIEL: lavar con agua y jabón abundantes.
P305 + P351 + P338 EN CASO DE CONTACTO CON LOS OJOS: aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando.

- P333+313 En caso de irritación o erupción cutánea: consultar a un médico.
P337+313 Si persiste la irritación ocular: consultar a un médico.

Indicaciones de reciclaje

Cartuchos vacíos:

- ▶ Deseche el mezclador enroscado a través del sistema de recogida nacional identificado como Punto Verde.
- ▶ O el código de residuo LER: 150102 embalajes de plástico



Cartuchos llenos o parcialmente vacíos:

- ▶ Deberán eliminarse como residuos especiales de acuerdo con las normativas oficiales.
 - Código de residuo LER: 08 04 09* Residuos de adhesivos y sellantes que contienen disolventes orgánicos u otras sustancias peligrosas.
 - O el código de residuo LER: 20 01 27* Pinturas, tintas, adhesivos y resinas que contienen sustancias peligrosas.

Contenido: 330 ml / 11.1 fl.oz. 500 ml / 16.9 fl. oz **Peso:** 590 g / 20.8 oz 890 g / 31.4 oz

El incumplimiento de las instrucciones de uso y datos de fijación, el uso de anclajes no fabricados por Hilti, el estado deficiente o cuestionable del hormigón o ciertas aplicaciones puede afectar a la fiabilidad y rendimiento de la fijación.

Información del producto

- Conserve las presentes instrucciones de uso siempre junto con el producto y entréguelas también si el producto pasa a manos de otra persona.
- Consulte la hoja de **datos de seguridad** antes de utilizar el producto.
- La **fecha de caducidad** se indica en la pieza de conexión (mes/año). El producto no debe utilizarse después de la fecha de caducidad.
- **Temperatura del cartucho durante la utilización:** de 0 °C a 40 °C / de 32 °F a 104 °F.
- **Temperatura del material base durante la instalación:**
Varilla HAS/HIT-V, manguito HIS, barra corrugada: de -10 °C a 40 °C / de 14 °F a 104 °F.
HIT-Z: de +5 °C a 40 °C / de 41 °F a 104 °F.
- **Condiciones de transporte y almacenamiento:** lugar fresco, seco y oscuro con una temperatura de +5 °C a 25 °C / de 41 °F a 77 °F.
- Para aplicaciones que no se describen en las presentes instrucciones de uso o no se enmarcan en la especificación, póngase en contacto con Hilti.
- **Los cartuchos que no estén completamente vacíos deberán permanecer en el portacartuchos** y utilizarse antes de **cuatro semanas**. Para ello deberán guardarse en el portacartuchos con el mezclador enroscado en las condiciones de almacenamiento recomendadas. Antes de utilizarlo de nuevo, enroscar un nuevo mezclador y desechar la resina inicial.

AVISO

- ▲ **La superficie de la barra de anclaje HIT-Z no debe modificarse.**
- ▲ **La resina puede salpicar si se utiliza incorrectamente.**
 - Lleve gafas protectoras, guantes de protección y ropa de trabajo durante el trabajo.
 - No comience a inyectar si no se ha roscado el mezclador.
 - Enrosque un nuevo mezclador antes de trabajar con un cartucho nuevo. Asegúrese de que el mezclador está unido firmemente.
 - Utilice exclusivamente el modelo de mezclador (HIT-RE-M) suministrado con la resina. No modifique el mezclador en ningún caso.
 - No utilice cartuchos en mal estado y/o portacartuchos dañados o sucios.
- ▲ **Valores de sujeción deficientes/fallo de la fijación debido a limpieza insuficiente del agujero.**
 - Antes de inyectar la resina, los agujeros deben estar libres de restos de perforación, polvo, agua, hielo, aceite, grasa o cualquier otro agente contaminante.
 - Soplado del agujero con aire sin aceite hasta que el aire que refluye esté libre de polvo.
 - Lavado del agujero: lave con una manguera de agua con la presión normal de la red hasta que salga agua limpia.
 - Limpieza del agujero: realícese sólo con un cepillo metálico de tamaño apropiado. Al cepillar el agujero, se notará cierta resistencia en el cepillo. Si no es este el caso, el cepillo es demasiado pequeño y debe cambiarse.
- ▲ **Verificar que el relleno del agujero se produce desde el fondo del mismo para que no se formen burbujas de aire.**
 - Si es necesario, utilice las prolongaciones para alcanzar el fondo del agujero..
 - En aplicaciones por encima de la cabeza, utilice el accesorio HIT-SZ y preste especial atención al introducir el elemento de fijación. Puede salir resina sobrante del agujero. Asegúrese de que la resina no gotee sobre el usuario.
- ▲ **El incumplimiento de estas instrucciones puede llevar a una fijación incorrecta.**

Buchas químicas para fixações de ferros e de ancoragens em betão.

Hilti HIT-HY 200-A

Contém: metacrilato de hidroxipropilo (A), peróxido de dibenzoílo (B)



(A, B)



(B)



Atenção

H317 Pode provocar uma reacção alérgica cutânea. (A, B)

H319 Provoca irritação ocular grave. (B)

H400 Muito tóxico para os organismos aquáticos. (B)

P262 Não pode entrar em contacto com os olhos, a pele ou a roupa.

P280 Usar luvas de protecção/vestuário de protecção/protecção ocular/protecção facial.

P302 + P352 SE ENTRAR EM CONTACTO COM A PELE: lavar com sabonete e água abundantes.

P305 + P351 + P338 SE ENTRAR EM CONTACTO COM OS OLHOS: enxaguar cuidadosamente com água durante vários minutos. Se usar lentes de contacto, retire-as, se tal lhe for possível. Continuar a enxaguar.

P333+313 Em caso de irritação ou erupção cutânea: consulte um médico.

P337+313 Caso a irritação ocular persista: consulte um médico.

Recomendação sobre a eliminação

Cartuchos vazios:

- ▶ Deixar o misturador enroscado e eliminar através do sistema de recolha "Ponto Verde" nacional.
- ▶ ou código CER: 150102 Embalagens de plástico

Cartuchos semiusados ou novos:

- ▶ Eliminar de acordo com as normas e regulamentações legais sobre resíduos especiais.
 - Código CER: 08 04 09* Resíduos de colas ou vedantes, contendo solventes orgânicos ou outras substâncias perigosas.
 - ou código CER: 20 01 27* Tintas, produtos adesivos, colas e resinas, contendo substâncias perigosas.

Conteúdo: 330 ml / 11.1 fl.oz. 500 ml / 16.9 fl. oz **Peso:** 590 g / 20.8 oz 890 g / 31.4 oz

O não cumprimento destas instruções de instalação, a utilização de ancoragens não Hilti, condições deficientes ou duvidosas do material base ou aplicações únicas podem afectar a fiabilidade ou desempenho das fixações.

Dados informativos sobre o produto

- Guarde estas instruções de utilização sempre junto com o produto, mesmo quando o entregar a outras pessoas.
- Antes de iniciar os trabalhos, tenha em consideração a **ficha técnica de segurança**.
- Veja o **prazo de validade** (mês/ano) na peça de junção. Não utilize produtos cujo prazo de validade se encontre ultrapassado.
- **Temperatura do cartucho durante a utilização:** entre 0 °C e 40 °C / 32 °F e 104 °F.
- **Temperatura do material base durante a instalação:**
HAS/HIT-V, HIS, Rebar: entre -10 °C e 40 °C / 14 °F e 104 °F.
HIT-Z: entre +5 °C e 40 °C / 41 °F e 104 °F.
- **Condições de transporte e armazenamento:** em lugar fresco, seco e ao abrigo da luz, entre +5 °C e 25 °C / 41 °F e 77 °F.
- Em caso de aplicações que não se encontrem descritas nas presentes instruções de utilização ou estejam fora das especificações, é favor dirigir-se à Hilti.
- **As sobras de cartuchos parcialmente usados devem permanecer** no suporte e ser utilizadas num prazo de **quatro semanas**. Deixe o misturador enroscado e armazene-o no suporte juntamente com o cartucho, de acordo com as condições de armazenagem preconizadas. Quando/se reutilizados, utilize um misturador novo e não utilize novamente a resina inicial.

AVISO**▲ A superfície do varão roscado HIT-Z não pode ser modificada.****▲ No caso de manuseamento incorrecto, é possível que seja injectada resina.**

- Durante a realização de trabalhos, use óculos de protecção, luvas de protecção e roupa de trabalho!
- Nunca comece a aplicação sem que o misturador esteja enroscado!
- Antes da aplicação de um novo cartucho, enrosque um misturador novo. Certifique-se de que está bem apertado.
- Utilizar apenas o tipo de misturador (HIT-RE-M) fornecido com a resina. Não modifique o misturador de forma alguma.
- Nunca utilize cartuchos danificados e/ou suportes danificados ou sujos.

▲ Valores de retenção deficientes/falha da fixação devido a limpeza insuficiente do furo.

- Antes da injeção, os furos têm de estar isentos de material de perfuração, pó, água, gelo, óleo, gordura ou outras impurezas.
- Limpar o furo por sopro com ar isento de óleo, até que o ar saia sem pó.
- Lavar o furo – com uma mangueira com pressão normal, até sair água limpa.
- Escovar o furo – apenas com uma escova de aço adequada. Ao escovar o furo deverá ser perceptível uma resistência na escova – se não for o caso, a escova é demasiado pequena e deverá ser substituída.

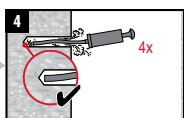
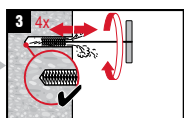
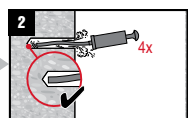
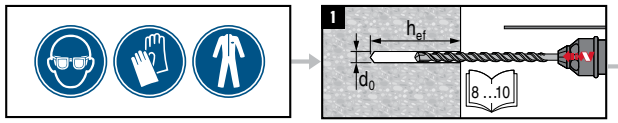
▲ Assegure que o enchimento do furo é efectuado a partir do fundo, para que não se formem bolhas de ar.

- Se necessário, utilize os prolongadores para alcançar o fundo do furo.
- No caso de aplicações em suspensão, utilize o acessório HIT-SZ e preste especial atenção ao inserir o elemento de fixação. Pode sair resina em excesso do furo. Certifique-se de que não pinga resina sobre o utilizador.

▲ A limpeza manual do furo é permitida, desde que as instruções abaixo sejam seguidas rigorosamente. Note que a limpeza manual do orifício de perfuração é apenas válida de acordo com ETA-15/0195 e não para outras homologações.



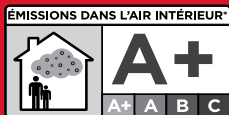
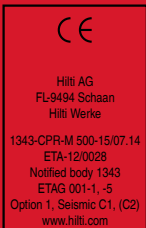
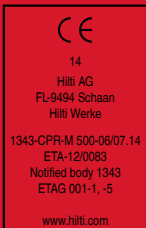
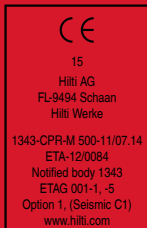
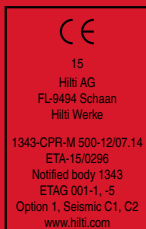
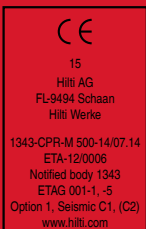
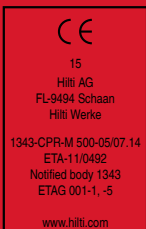
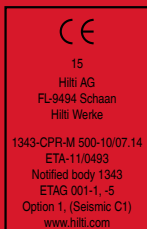
	HAS/HIT-V HIS-N 		$d_0:$ $\leq 3/4"$ 19 mm	$h_{ef}:$ $\leq 10d$
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	B	D
	$2\ 3/8" \dots 7\ 1/2"$ 60...190 mm	$2\ 3/8" \dots 7\ 1/2"$ 60...190 mm
	26	28

▲ A não observação das instruções pode conduzir à falha da fixação!

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Certified to
ANSI-NSF 61



* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

www.hilti.com

Made in Germany

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