

# HILTI

## Hilti HIT-HY 70

For industrial use only. Keep out of the reach of children.

See the Material Safety Data Sheet for this product before handling.

**Caution:** Irritating to eyes and skin. May cause sensitization in susceptible individuals.

**Contains:** dibenzoyl peroxide, hydroxypropylmethacrylate

**Precautions:** Avoid contact with skin/eyes. Always wear impermeable gloves and eye protection when using product. Store in a cool, dry area. Keep from freezing. Do not store in direct sunlight.

**First Aid: Eyes** - Immediately flush with water for 15 minutes, contact a physician.

**Skin** - Wash with soap and water. Launder contaminated clothing before reuse. If irritation occurs, contact a physician. **Ingestion** - Do not induce vomiting unless directed by a physician. Contact a physician immediately. **Inhalation** - Move to fresh air, give oxygen if breathing is difficult. Contact a physician if symptoms persist.

## Hilti HIT-HY 70

Usage industriel uniquement. À conserver hors de la portée des enfants.

Lire la fiche de données de sécurité sur le matériau relative à ce produit avant toute manipulation.

**Avvertissement:** Irritant pour les yeux et la peau. Peut entraîner une sensibilisation chez les individus à risque.

**Contient:** Peroxyde de dibenzoyle, hydroxypropylmethacrylate

**Consignes: Éviter le contact avec la peau et les yeux. Toujours porter des gants imperméables** et un équipement de protection des yeux lors de l'utilisation de le produit. Conserver dans un endroit frais et au sec. Conserver à l'abri du gel. Conserver à l'abri du rayonnement solaire direct. **Premiers soins: Yeux** - Rincer immédiatement à l'eau pendant 15 minutes et appeler un médecin. **Peau** - Se laver immédiatement avec de l'eau et du savon. Laver les vêtements contaminés avant de les réutiliser. En cas d'irritations, consulter un médecin. **Ingestion** - Ne pas faire vomir à moins que cela n'ait été ordonné par un médecin. Appeler immédiatement un médecin.

**Inhalation** - Aller à l'air frais, donner de l'oxygène en cas de difficultés respiratoires. Consulter un médecin en cas de persistance des symptômes.

## Hilti HIT-HY 70

Sólo para uso industrial. Mantener alejado del alcance de los niños.

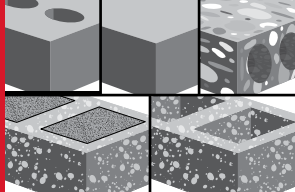
Véase la Hoja de datos de seguridad de los materiales de este producto antes de utilizarlo.

**Precaución:** Es irritante para los ojos y la piel. Puede provocar sensibilidad en algunas personas.

**Contiene:** peróxido de dibenzolilo, metacrilato de hidroxipropilo

**Precauciones:** Evite el contacto con la piel y los ojos. Utilice siempre guantes impermeables y protección para los ojos cuando utilice este producto. Consérvelo en un sitio fresco y seco. Evite que el producto se congele. No lo deje expuesto a la luz directa del sol. **Primeros auxilios: Ojos:** Enjuague inmediatamente con agua durante 15 minutos; busque ayuda médica. **Piel:** Lave con agua y jabón. Lave bien la ropa contaminada antes de volver a utilizarla. En caso de irritación, busque ayuda médica. **Ingestión:** No induzca al vómito a menos que así lo indique un médico. Busque ayuda médica de inmediato. **Inhalación:** Lleve a la persona al aire libre, dele oxígeno si tiene dificultades para respirar. Si los síntomas persisten, busque ayuda médica.

Hilti Inc. Tulsa, OK 74146 / Hilti Canada Corp.



## Hilti HIT-HY 70

Instruction for use [en](#)

Mode d'emploi [fr](#)

Manual de instrucciones [es](#)

Instruções de utilização [pt](#)







ICC ESR - 2682




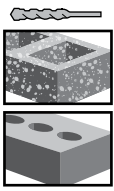



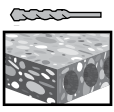



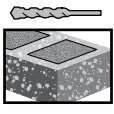

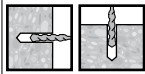

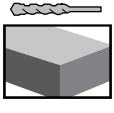

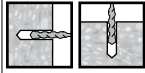

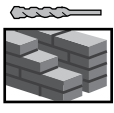
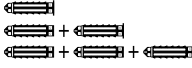
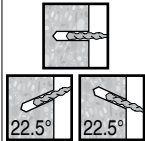

ICC ESR - 3342

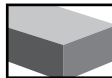
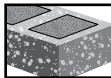
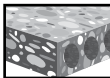
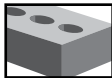
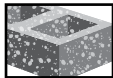
In Case of Emergency, call Chem-Trec: 1-800-424-9300 (USA, P.R., Virgin Islands, Canada)  
En cas d'urgence, téléphoner Chem-Trec: 1-800-424-9300 (USA, P.R., Virgin Islands, Canada)  
En Caso de Emergencia, llame Chem-Trec: 001-703-527-3887 (other countries/ autres pays/ otros países)

Inspected by  
UL LLC



<p><b>en</b></p>	<p><b>Adhesive anchoring system for anchor fastenings in hollow and solid masonry.</b>                  Read the safety precautions, the safety data sheet and the product information before use. Read the product information on/in package of the accessories and elements before use. For any application not covered by this document / beyond values specified, please contact Hilti.</p>	<p>→ </p>
<p><b>fr</b></p>	<p><b>Système de mortier de scellement pour ancrages dans des murs de maçonnerie creux et pleins.</b>                  Avant utilisation, bien lire les prescriptions de sécurité, la fiche de données de sécurité ainsi que la fiche d'information produit. Avant utilisation, bien lire les informations produit figurant sur/dans l'emballage des accessoires et éléments. 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.</p>	<p>→ </p>
<p><b>es</b></p>	<p><b>Sistema de resina de inyección para anclajes en mampostería hueca y maciza.</b>                  Lea las indicaciones de seguridad, la hoja de datos de seguridad y la información del producto antes de utilizarlo. Lea las indicaciones de seguridad del producto contenidas en el exterior o interior del embalaje de los accesorios y elementos antes de utilizarlo. Para aplicaciones que no se describen en las presentes instrucciones de uso o no se enmarcan en la especificación, póngase en contacto con Hilti.</p>	<p>→ </p>
<p><b>pt</b></p>	<p><b>Sistema de buchas químicas para ancoragens em alvenaria oca e maciça.</b>                  Antes de utilizar, ler as regras de segurança, a ficha de dados de segurança e os dados informativos sobre o produto. Antes de utilizar, ler os dados informativos sobre o produto na/dentro da embalagem de acessórios e elementos. 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.</p>	<p>→ </p>

					
1			HAS M6 ... M12, HAS 1/4" - 1/2" HIT-IC M8 ... M12 HIT-IC 5/16" - 1/2"		
2			HAS M10 HAS 3/8"		
3			HAS M10 ... M20 HAS 3/8" - 3/4" HIS M10, M12 HIS 3/8", 1/2" Rebar 10 ... 20 Rebar #3 - #6		
4			HAS M8 ... M12 HAS 5/16" - 1/2" HIT-IC M8 ... M12 HIT-IC 5/16" - 1/2"		
5			HAS M10 ... M20 HAS 3/8" - 3/4" HAS 22.5° $\triangleleft$ Rebar 12 ... 20 Rebar #4 - #6		



**en** Hollow concrete masonry unit (CMU)

Hollow brick

Hollow Core Concrete

Grout-filled CMU

Solid brick

Multi Wythe Solid Brick

**fr** Parpaing creux en béton (CMU)

Brique à trous

dalle de béton alvéolée

CMU rempli de mortier

Brique pleine

Maçonnerie multicouches

**es** Ladrillo hueco de hormigón (CMU)

Ladrillo perforado hueco

Losas alveolares

CMU relleno con mortero

Ladrillo macizo

Mampostería multicapa

**pt** Bloco de betão oco (CMU)

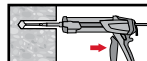
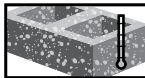
Tijolo oco/perfurado

Lajes alveolares

CMU preenchido com argamassa

Tijolo maciço

Tijolos maciços em múltiplas camadas



<b>en</b>	Rotary drilling	Hammer drilling	Temperature of base material	Working time	Curing time	Trigger pulls
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<b>fr</b>	Perçage rotatif	Perçage avec percussion	Température du matériau support	Temps de manipulation	Temps de durcissement	Coups
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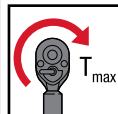
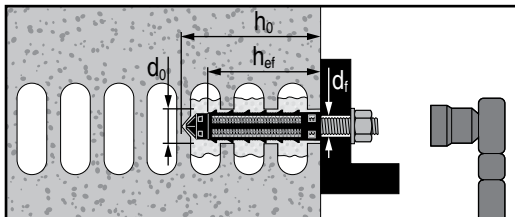
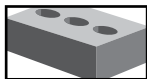
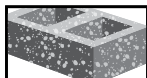
<b>es</b>	Taladrado sin percusión	Taladrado con martillo	Temperatura de la superficie de trabajo	Tiempo de tratamiento	Tiempo de fraguado	Carreras
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<b>pt</b>	Perfurar rotativo	Perfurar de martelo	Temperatura do material base	Tempo de trabalho	Tempo de cura total	Bombadas
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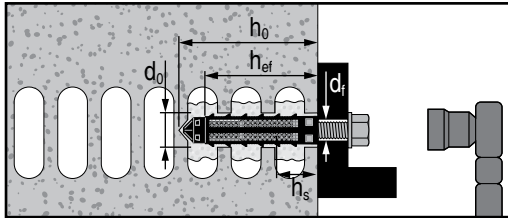
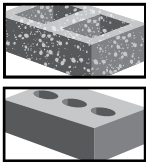
HAS



HAS	HIT-SC	$d_0$ [inch]	$h_0$ [inch]	$h_{ef}$ [inch]	HIT-RB	$d_f$ [inch]	$T_{max}$ [ft lb]	
	12x50	1/2	2 3/8	2	1/2	9/32	≤ 2.2	
	12x85		3 3/4	3 1/8				
5/16"	16x50	5/8	2 3/8	2	5/8	3/8		
	16x85		3 3/4	3 1/8				
3/8"	16x50		2 3/8	2		7/16		≤ 3
	16x85		3 3/4	3 1/8				
1/2"	18x50	11/16	2 3/8	2	11/16	9/16	≤ 4.5	
	18x85		3 3/4	3 1/8				

HAS	HIT-SC	$d_0$ [mm]	$h_0$ [mm]	$h_{ef}$ [mm]	HIT-RB	$d_f$ [mm]	$T_{max}$ [Nm]	
M6	12x50	12	60	50	12	7	≤ 3	
	12x85		95	80				
M8	16x50	16	60	50	16	9		
	16x85		95	80				
M10	16x50		60	50		11		≤ 4
	16x85		95	80				
M12	18x50	18	60	50	18	14	≤ 6	
	18x85		95	80				

	1/4"		5/16"		3/8"		1/2"	
	M6	M6	M8	M8	M10	M10	M12	M12
	12x50	12x85	16x50	16x85	16x50	16x85	18x50	18x85
MD 2500 / HDM	2	4	3	5	3	5	3	6
ED 3500-A / HDE 500-A	3	6	4	7	4	7	4	9


**HIT-IC**


HIT-IC	HIT-SC	$d_0$ [inch]	$h_0$ [inch]	$h_{ef}$ [inch]	HIT-RB	$d_f$ [inch]	$h_s$ [inch]	$T_{max}$ [ft lb]
	16 x 50	5/8	2 3/8	2		3/8	3/8 - 1 1/2	≤ 2.2
	16 x 85		3 3/4	3 1/8			3/8 - 3	
	22 x 50	7/8	2 3/8	2		7/16	3/8 - 1 1/2	≤ 3
	22 x 85		3 3/4	3 1/8			3/8 - 3	
	22 x 50		2 3/8	2			3/8 - 1 1/2	
	22 x 85	3 3/4	3 1/8	7/8	9/16	3/8 - 1 1/2	≤ 4.5	

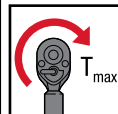
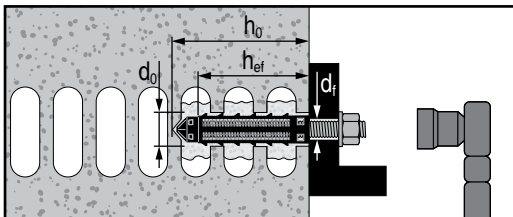
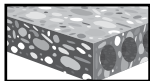
HIT-IC	HIT-SC	$d_0$ [mm]	$h_0$ [mm]	$h_{ef}$ [mm]	HIT-RB	$d_f$ [mm]	$h_s$ [mm]	$T_{max}$ [Nm]
	16 x 50	16	60	50		9	10 ... 35	≤ 3
	16 x 85		95	80			10 ... 75	
	22 x 50	22	60	50		11	10 ... 35	≤ 4
	22 x 85		95	80			10 ... 75	
	22 x 50		60	50			10 ... 35	
	22 x 85	95	80	22	14	10 ... 35	≤ 6	

	5/16 x 2	5/16 x 3 3/16	3/8 x 2	3/8 x 3 3/16	1/2 x 2	1/2 x 3 3/16
	M8 x 50	M8 x 80	M10 x 50	M10 x 80	M12 x 50	M12 x 80
HIT-SC	16 x 50	16 x 85	22 x 50	22 x 85	22 x 50	22 x 85
MD 2500 / HDM	3	5	5	8	5	8
ED 3500-A / HDE 500-A	4	7	7	10	7	10

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HAS



HAS	HIT-SC	$d_0$ [inch]	$h_0$ [inch]	$h_{ef}$ [inch]	HIT-RB	$d_f$ [inch]	$T_{max}$ [ft lb]
3/8"	16x50	5/8	2 3/8	2	5/8	7/16	$\leq 3$

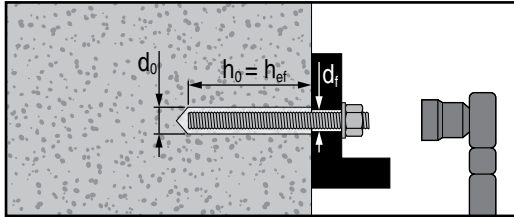
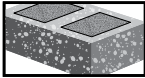
HAS	HIT-SC	$d_0$ [mm]	$h_0$ [mm]	$h_{ef}$ [mm]	HIT-RB	$d_f$ [mm]	$T_{max}$ [Nm]
M10	16x50	16	60	50	16	11	$\leq 4$

	3/8" M10
	16x50
HIT-SC	
MD 2500 / HDM	3
ED 3500-A / HDE 500-A	4



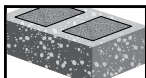


HAS

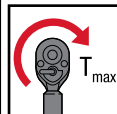
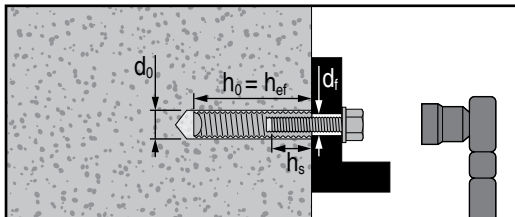


HAS	$d_0$ [inch]	$h_0 = h_{ef}$ [inch]	HIT-RB	$d_f$ [inch]	$T_{max}$ [ft lb]
3/8	7/16	3 3/8	7/16	7/16	≤ 6
1/2	9/16	4 1/2	9/16	9/16	≤ 7.5
5/8	3/4	5 5/8	3/4	1 1/16	≤ 7.5
3/4	7/8	6 3/4	7/8	1 3/16	≤ 10

HAS	$d_0$ [mm]	$h_0 = h_{ef}$ [mm]	HIT-RB	$d_f$ [mm]	$T_{max}$ [Nm]
M10	12	85	12	11	≤ 8
M12	14	115	14	14	≤ 10
M16	18	145	18	19	≤ 10
M20	22	175	22	22	≤ 13,5



**HIS**

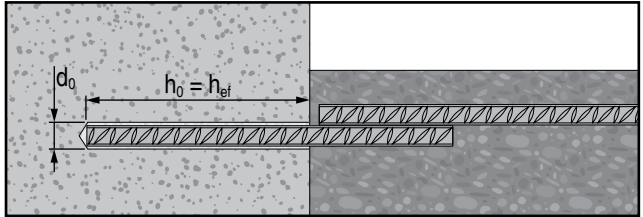
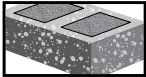


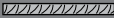

HIS	$d_0$ [inch]	$h_0 = h_{ef}$ [inch]	HIT-RB	$d_f$ [inch]	$h_s$ [inch]	$T_{max}$ [ft lb]
3/8	11/16	4 3/8	11/16	7/16	3/8 - 1	≤ 6
1/2	7/8	5	7/8	9/16	1/2 - 1 1/4	≤ 7.5



HIS	$d_0$ [mm]	$h_0 = h_{ef}$ [mm]	HIT-RB	$d_f$ [mm]	$h_s$ [mm]	$T_{max}$ [Nm]
M10	18	110	18	11	10 ... 25	≤ 8
M12	22	125	22	14	12 ... 30	≤ 10



Rebar



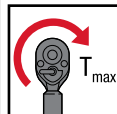
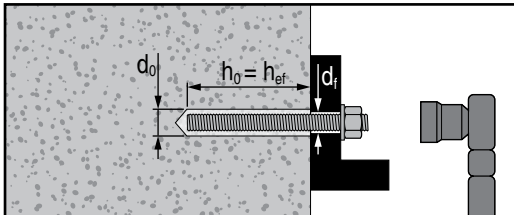
Rebar 	$d_0$ [inch]	$h_0 = h_{ef}$ [inch]	HIT-RB 
#3	1/2	3 3/8	1/2
#4	5/8	4 1/2	5/8
#5	3/4	5 5/8	3/4
#6	7/8	6 3/4	7/8




Rebar 	$d_0$ [mm]	$h_0 = h_{ef}$ [mm]	HIT-RB 
Ø10	14	85	14
Ø12	16	115	16
Ø16	20	145	20
Ø20	25	175	25



# Hilti HIT-HY 70



HAS

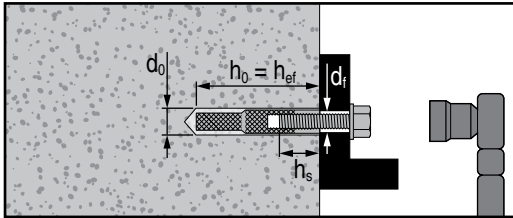
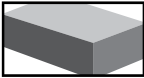


HAS	$d_0$ [inch]	$h_0 = h_{ef}$ [inch]	HIT-RB	$d_f$ [inch]	$T_{max}$ [ft lb]
					
5/16"	3/8	2	3/8	3/8	≤ 2.2
3/8"	7/16		7/16	7/16	≤ 3
1/2"	9/16		9/16	9/16	≤ 4.5

HAS	$d_0$ [mm]	$h_0 = h_{ef}$ [mm]	HIT-RB	$d_f$ [mm]	$T_{max}$ [Nm]
					
M8	10	50	10	9	≤ 3
M10	12		12	12	≤ 4
M12	14		14	14	≤ 6



**HIT-IC**

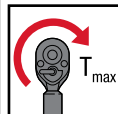
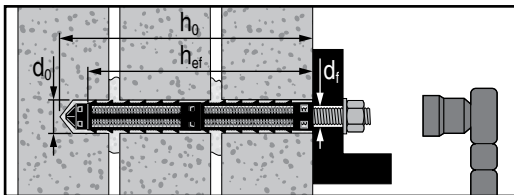
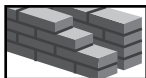


HIT-IC	$d_0$ [inch]	$h_0 = h_{ef}$ [inch]	HIT-RB	$d_f$ [inch]	$h_s$ [inch]	$T_{max}$ [ft lb]
5/16 x 2	1/2	2	1/2	3/8	3/8 - 1 1/2	≤ 2.2
3/8 x 2	5/8		5/8	7/16		≤ 3
1/2 x 2	3/4		3/4	9/16		≤ 4.5




















HIT-IC	$d_0$ [mm]	$h_0 = h_{ef}$ [mm]	HIT-RB	$d_f$ [mm]	$h_s$ [mm]	$T_{max}$ [Nm]
M8 x 50	14	50	14	9	10 ... 35	≤ 3
M10 x 50	16		16	12		≤ 4
M12 x 50	18		18	14		≤ 6

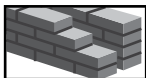


HAS

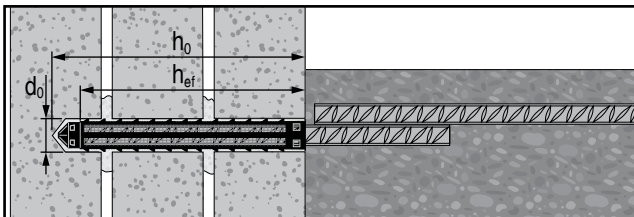


HAS	HIT-SC	$d_0$ [inch]	$h_0$ [inch]	$h_{ef}$ [inch]	HIT-RB	$d_f$ [inch]	$T_{max}$ [ft lb]
3/8	+ 16x85	5/8	7 1/8	6 1/4	5/8	7/16	≤ 10
	+ 16x85						
	+ 16x85		10 3/4	9 3/4			
	+ 16x85						
1/2	+ 18x85	11/16	7 1/8	6 1/4	11/16	9/16	≤ 30
	+ 18x85						
	+ 18x85		10 3/4	9 3/4			
	+ 18x85						
5/8	+ 22x85	7/8	7 1/8	6 1/4	7/8	11/16	≤ 45
	+ 22x85						
	+ 22x85		10 3/4	9 3/4			
	+ 22x85						
3/4	+ 26x200	1	8 1/4	8	1	13/16	≤ 60
	+ 26x125		13 1/4	13			
	+ 26x200						

HAS 	HIT-SC 	$d_0$ [mm] 	$h_0$ [mm]	$h_{ef}$ [mm]	HIT-RB 	$d_f$ [mm]	$T_{max}$ [Nm]	
M10	 +	16x85	16	180	160	16	11	≤ 13
		16x85		270	245			
	 +	16x85	18	180	160			
		16x85		270	245			
M12	 +	18x85	18	180	160	18	14	≤ 41
		18x85		270	245			
	 +	18x85	22	180	160			
		18x85		270	245			
M16	 +	22x85	22	180	160	22	18	≤ 62
		22x85		270	245			
	 +	22x85	26	210	200			
		22x85		340	330			
M20		26x200	26	210	200	28	22	≤ 81
	 +	26x125		340	330			
		26x200						



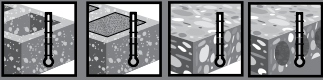



## Rebar

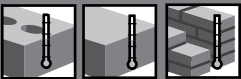





Rebar	HIT-SC	$d_0$ [inch]	$h_0$ [inch]	$h_{ef}$ [inch]	HIT-RB	
#4						
#5		26x200	1	8 <sup>1</sup> / <sub>4</sub>	8	1
#6						

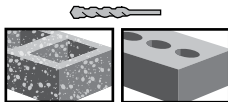
Rebar	HIT-SC	$d_0$ [mm]	$h_0$ [mm]	$h_{ef}$ [mm]	HIT-RB	
Ø 12						
Ø 16		26x200	26	210	200	28
Ø 20						



					
[°F]	[°C]		$t_{\text{work}}$		$t_{\text{cure}}$
23–32	-5 ... 0		10 min		6 h
33–41	1 ... 5		10 min		4 h
42–50	6 ... 10		7 min		2.5 h
51–68	11 ... 20		4 min		1.5 h
69–86	21 ... 30		2 min		30 min
87–104	31 ... 40		1 min		20 min

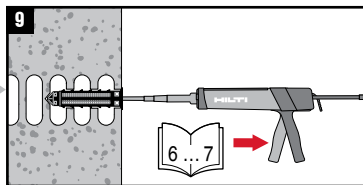
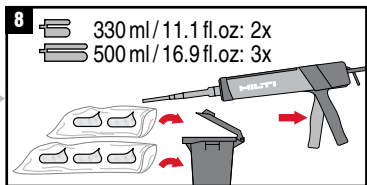
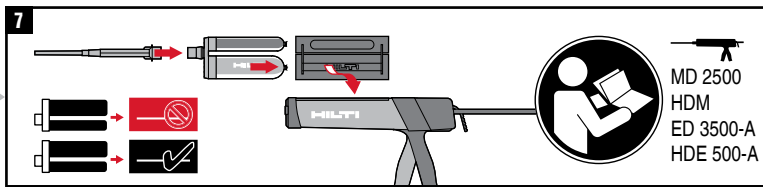
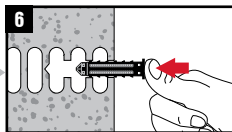
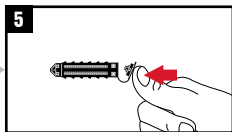
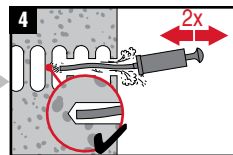
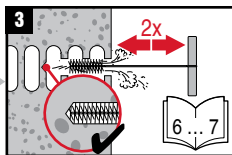
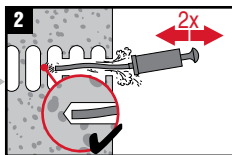
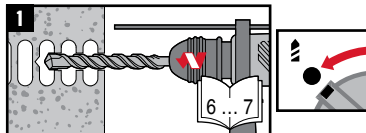
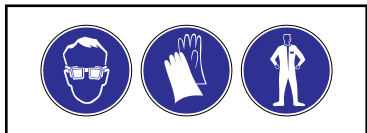
					
[°F]	[°C]		$t_{\text{work}}$		$t_{\text{cure}}$
41	5		10 min		4 h
42–50	6 ... 10		7 min		2.5 h
51–68	11 ... 20		4 min		1.5 h
69–86	21 ... 30		2 min		30 min
87–104	31 ... 40		1 min		20 min

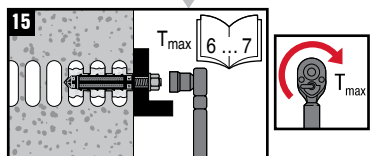
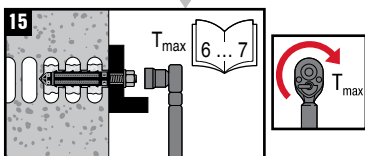
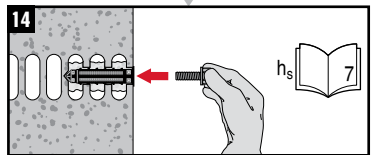
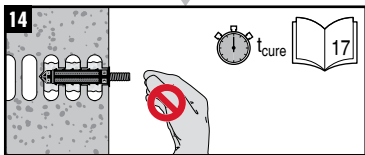
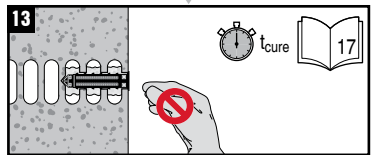
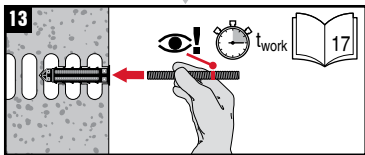
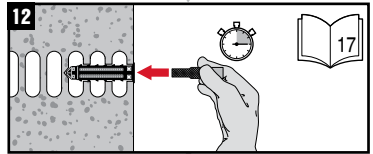
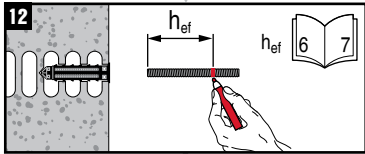
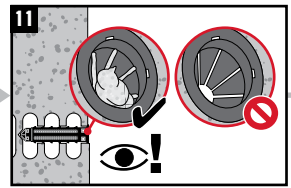
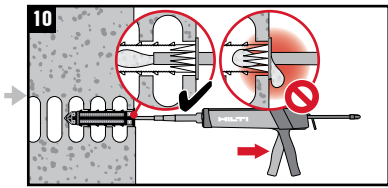
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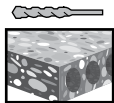
HIT-SC

HAS  
HIT-IC



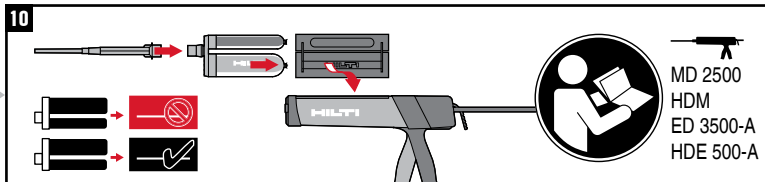
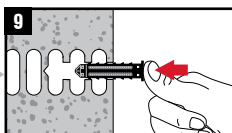
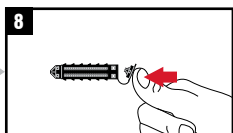
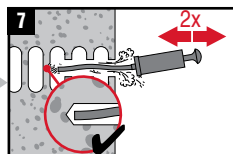
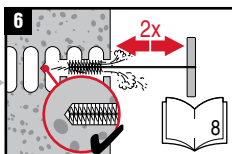
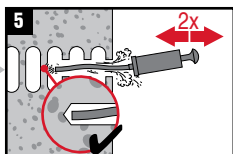
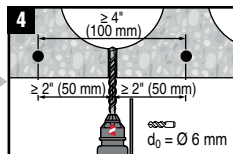
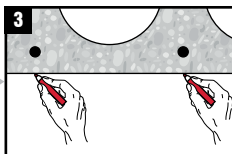
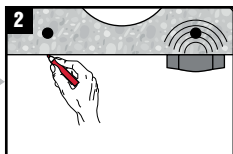
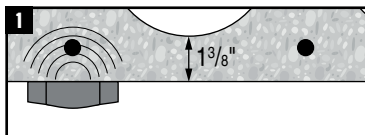
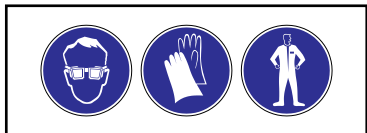


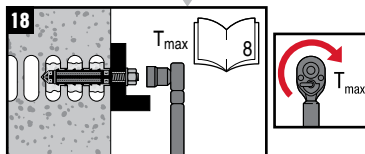
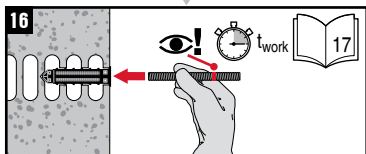
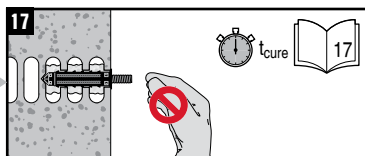
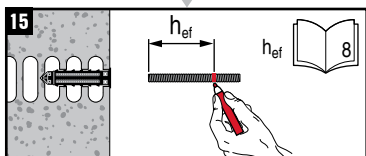
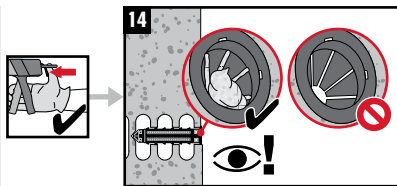
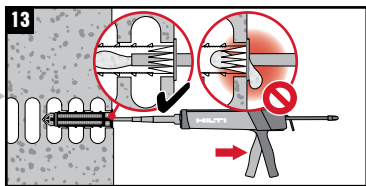
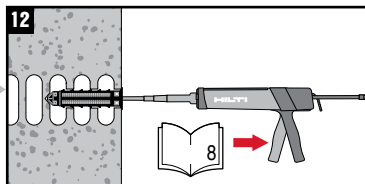
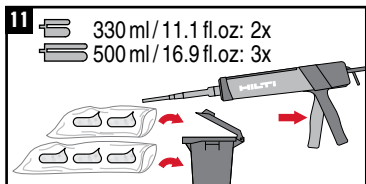
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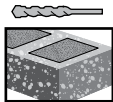
HIT-SC

HAS

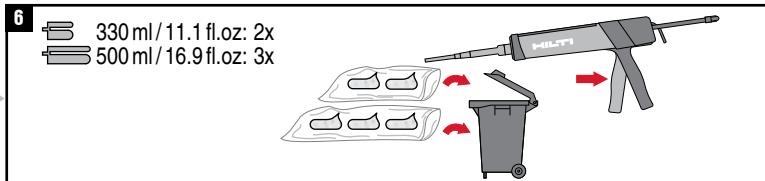
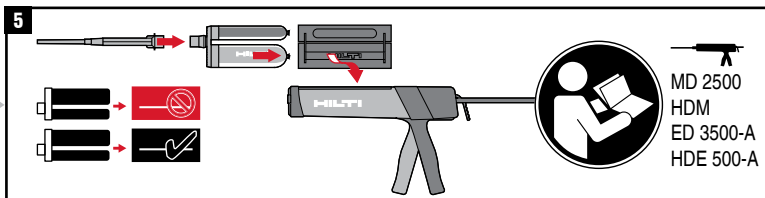
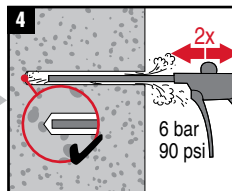
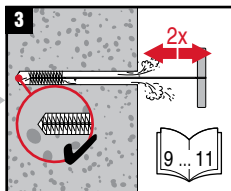
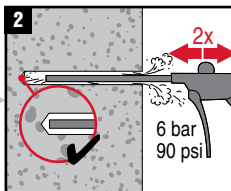
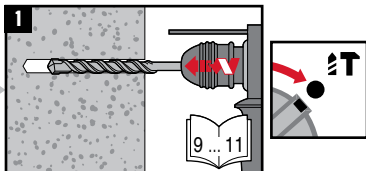
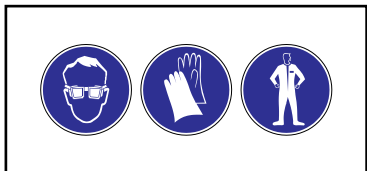
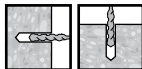


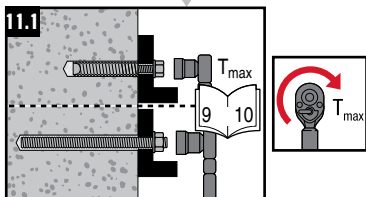
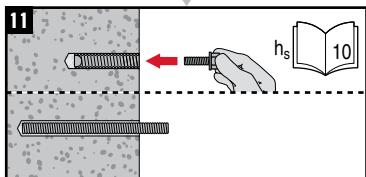
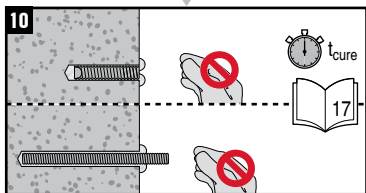
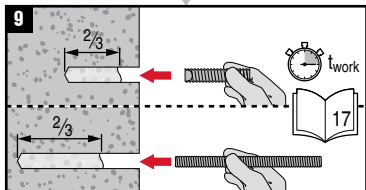
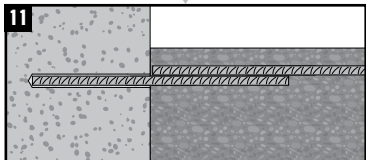
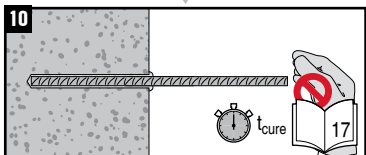
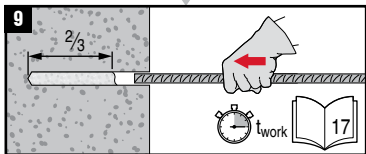
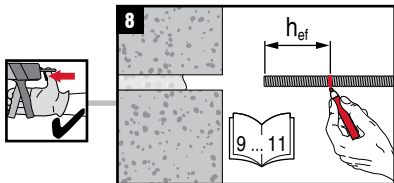
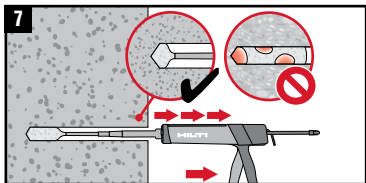


3

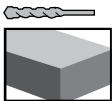


HAS  
 HIS  
 Rebar

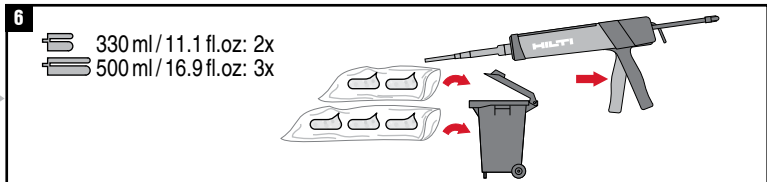
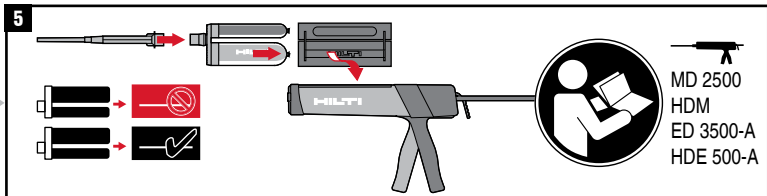
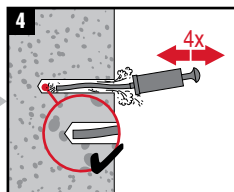
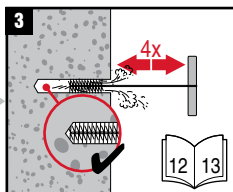
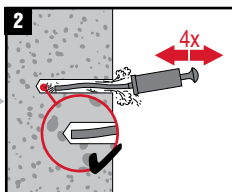
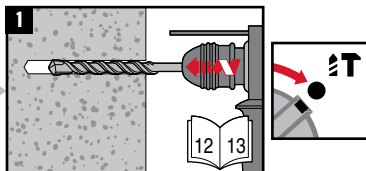
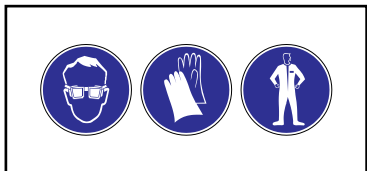
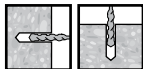




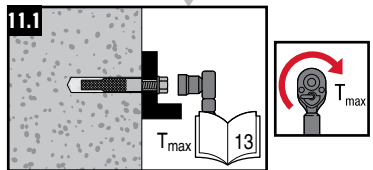
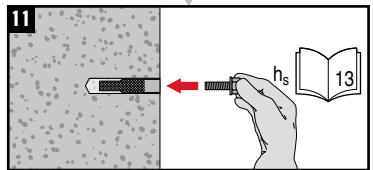
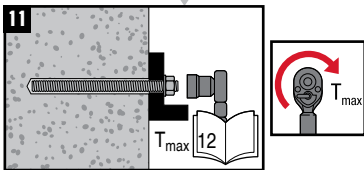
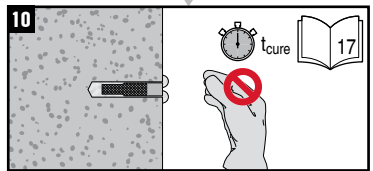
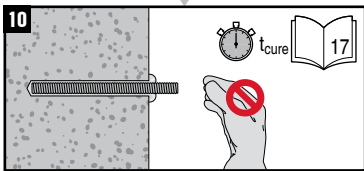
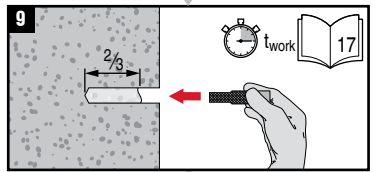
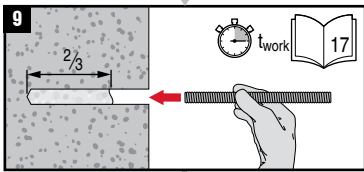
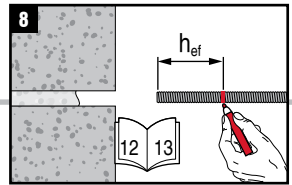
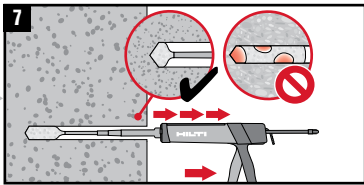
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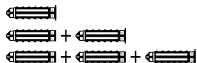
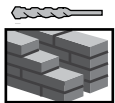
HAS  
HIT-IC



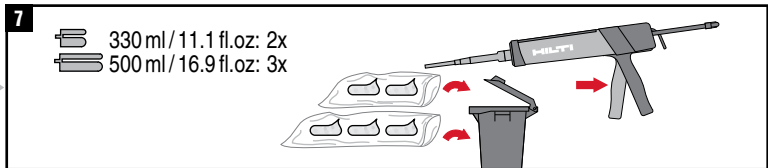
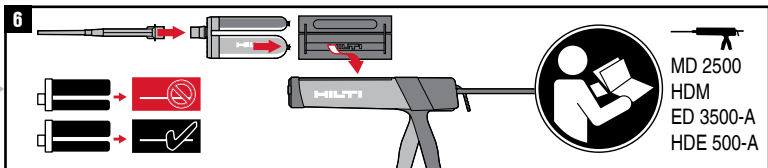
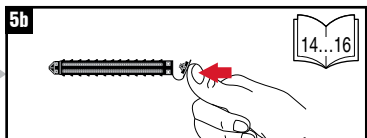
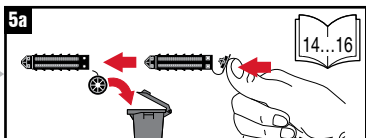
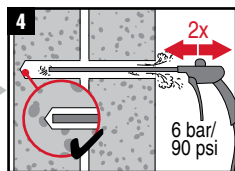
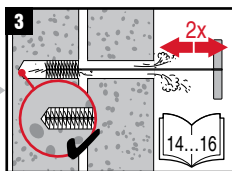
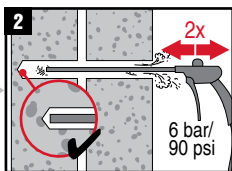
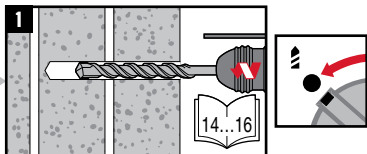
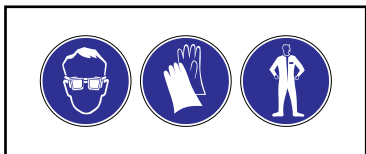




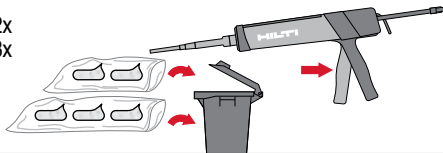
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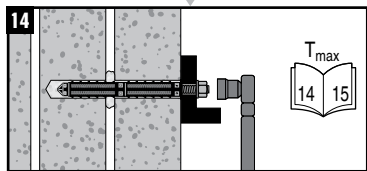
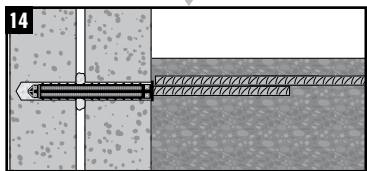
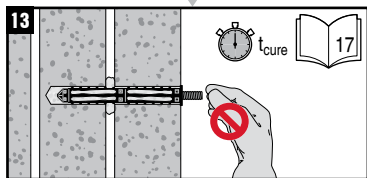
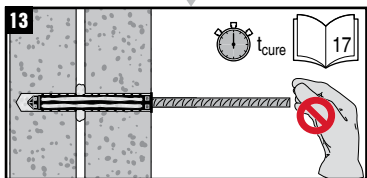
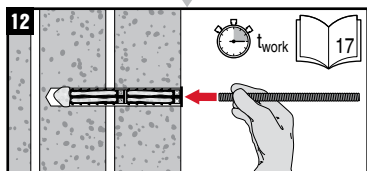
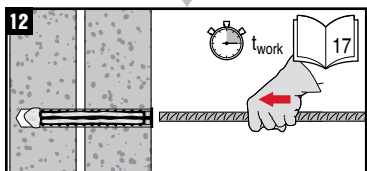
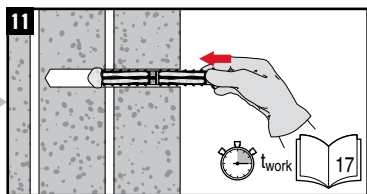
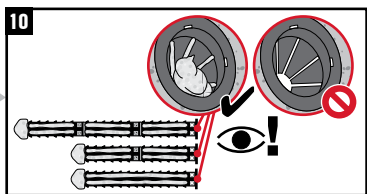
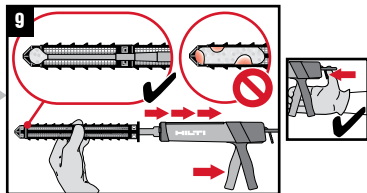
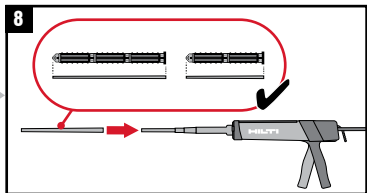


HAS  
Rebar



330 ml / 11.1 fl.oz.: 2x  
500 ml / 16.9 fl.oz.: 3x





## Hilti HIT-HY 70

### Adhesive anchoring system for rebar and anchor fastenings.

For use in hollow and solid masonry of clay brick, concrete block and multi wythe wall.

## Hilti HIT-HY 70

**Caution:** Irritating to eyes and skin.

May cause sensitization in susceptible individuals.

**Contains:** dibenzoyl peroxide, hydroxypropylmethacrylate

**Precautions:** Avoid contact with skin/eyes. Always wear impermeable gloves and eye protection when using product. Store in a cool, dry area. Keep from freezing. Do not store in direct sunlight.

**First Aid: Eyes** - Immediately flush with water for 15 minutes, contact a physician. **Skin** - Wash with soap and water. Launder contaminated clothing before reuse. If irritations occurs, contact physician.

**Ingestion** - Do not induce vomiting unless directed by a physician. Contact a physician immediately.

**Inhalation** - Move to fresh air, give oxygen if breathing is difficult. Contact a physician if symptoms persist.

#### Disposal considerations

##### Empty packs:

- Leave the mixer attached and dispose of via the local Green Dot recovery system.

##### Full or partially emptied packs:

- Must be disposed of as special waste in accordance with official regulations.



#### Ingredient

##### Part A: (Large side)

Quartz Sand	14808-60-7
NJ Trade Secret Registry	No. 19136100-5003
NJ Trade Secret Registry	No. 19136100-5020
NJ Trade Secret Registry	No. 19136100-5004
NJ Trade Secret Registry	No. 19136100-5022
NJ Trade Secret Registry	No. 19136100-5021
NJ Trade Secret Registry	No. 19136100-5002
NJ Trade Secret Registry	No. 19136100-5017
Amorphous silica	67762-90-7
Boric acid	10043-35-3

#### Ingredient

##### Part B: (Small side)

Quartz Sand	14808-60-7
Water	07732-18-5
Dibenzoyl peroxide	00094-36-0
Amorphous silica	07631-86-9
Dipropylene glycol	25265-71-8

#### CAS Number

► In Case of Emergency, call Chem-Trec: 1-800-424-9300 (USA, P.R., Virgin Islands, Canada)

**Warranty:** Refer to standard Hilti terms and conditions of sale for warranty information.

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.

**Content:** 330 ml / 11.1 fl.oz. 500 ml / 16.9 fl. oz

**Weight:** 590 g / 20.8 oz 820 g / 31.4 oz

## Product Information

- Always keep these instructions together with the product even when given to other persons.
- Check expiration date: See imprint on foil pack manifold (month/year). Do not use expired product.
- Foil pack temperature during usage: between 41 °F and 104 °F / +5 °C and 40 °C.
- Base material temperature at time of installation: between 23 °F and 104 °F / -5 °C and 40 °C.
- **Exception in hollow, solid and multi-wythe solid clay brick:** between 41°F and 104°F / +5°C and 40°C.
- Conditions for transport and storage: Keep in a cool, dry and dark place between 41 °F and 77 °F / 5°C and 25°C.
- 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.

## WARNING

### ! 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 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.

### ! Borehole filling in solid masonry: 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.

### ! Borehole filling in hollow masonry: Use a mesh sleeve. Fill the mesh sleeve with mortar from the centering cap until mortar escapes at the centering cap (filling control).

### ! Multi-Wythe Solid Brick application: HIT-SC sieve sleeves / sieve sleeve combinations have to be filled outside the bore hole: Push the mixer to the bottom of the last mesh sleeve (use mixer extension if necessary). Inject the anchor adhesive starting at the bottom of the last mesh sleeve while slowly withdrawing the mixing nozzle towards the centering cap, step by step, after each pull of the trigger. HIT-SC sieve sleeves have to be filled completely without forming air voids until anchor adhesive escapes at the centering cap (filling control).

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

## Mortier de scellement pour ancrage de chevilles pour béton et d'armatures

Convient pour des murs creux et pleins en briques, parpaings et ouvrages de maçonnerie multicouches.

### Hilti HIT-HY 70

**Destiné uniquement à un usage industriel. Conserver hors de la portée des enfants.**

**Se reporter à la fiche de données de sécurité relative à ce produit avant toute manipulation.**

**Attention :** Irritant pour les yeux et la peau.

Peut entraîner une sensibilisation chez les sujets sensibles.

**Contient :** Peroxyde de dibenzoyl, méthacrylate d'hydroxypropyle

**Mesures de protection :** Éviter tout contact avec la peau/les yeux. Toujours porter des gants de protection étanches ainsi que des lunettes de protection lors de l'utilisation du produit. Stocker au frais et au sec. Protéger du gel. Ne pas stocker à la lumière solaire directe.

**Premiers soins :** **Yeux** – Rincer immédiatement à l'eau pendant 15 minutes au minimum et consulter un médecin. **Peau** – Laver à l'eau et au savon. Laver les vêtements contaminés avant toute réutilisation. En cas d'irritations, consulter un médecin. **Ingestion** – Ne pas provoquer de vomissement sauf sur instruction d'un médecin. Consulter immédiatement un médecin.

**Inhalation** – Amener à l'air frais, mettre sous oxygène en cas de difficultés respiratoires. Contacter un médecin si les symptômes persistent.

#### 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.

##### Emballages pleins ou à moitié vides :

- Les apporter à un centre de collecte des matières dangereuses conformément aux dispositions administratives.

#### Substances constitutives

##### Composants A : (grand côté)

	Número CAS
Sable de quartz	14808-60-7
NJ TSNR	19136100-5003
NJ TSNR	19136100-5020
NJ TSNR	19136100-5004
NJ TSNR	19136100-5022
NJ TSNR	19136100-5021
NJ TSNR	19136100-5002
NJ TSNR	19136100-5017
Silice amorphe	67762-90-7
Acide borique	10043-35-3

#### Composants

##### Composants B : (petit côté)

	Número CAS
Sable de quartz	14808-60-7
Eau	07732-18-5
Peroxyde de dibenzoyl	00094-36-0
Silice amorphe	07631-86-9
Dipropylèneglycol	25265-71-8

\* NJ TSNR = New Jersey Trade Secret Registry Number (No. du Registre du Secret commercial de New Jersey)

► En cas d'urgence, appeler Chem-Trec: 1-800-424-9300 (États-Unis, Porto Rico, îles Vierges britanniques, Canada)

**Garantie :** Pour les informations sur la garantie, se référer aux conditions générales de vente Hilti.

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.

**Contenu :** 11.1 fl.oz./330 ml

16.9 fl.oz./500 ml

**Poids :** 19.0 oz/540 g

28.9 oz/820 g



## 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 41 °F / +5 °C à 40 °C
- Température du matériau support en cours d'utilisation : entre 23 °F et 104 °F / -5 °C et 40 °C
- Exception dans des briques d'argile à trous, pleines et de maçonnerie multicouches : entre 41 °F et 104 °F / +5 °C et 40 °C
- Conditions de transport et de stockage : dans un endroit frais, sec et à l'abri de la lumière à une température de 41 °F à 77 °F / +5 °C à 25 °C.
- 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 les 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.



## AVERTISSEMENT

### ! 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 et/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.
- 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.

### ! Remplissage du trou de perçage dans un matériau support plein : Veiller à ce que le remplissage se fasse à partir du fond du trou et éviter la formation de bulles d'air. Si nécessaire, utiliser des prolongateurs pour atteindre le fond du trou.

### ! Remplissage dans un matériau support avec cavités : Utiliser une douille-tamis. Remplir la douille-tamis à partir du capuchon de centrage jusqu'à ce que du mortier sorte du capuchon (contrôle de remplissage).

### ! Utilisation dans la maçonnerie multicouches: Les tamis / combinaisons de tamis HIT-SC doivent être remplies en dehors du trou : Insérer la buse mélangeuse jusqu'au fond du dernier tamis (si nécessaire, utiliser la rallonge de la mélangeuse). Pendant le remplissage avec du mortier, retirer la mélangeuse lentement et successivement, après chaque pression sur la détente, en direction du capuchon de centrage. Les tamis HIT-SC doivent être remplis entièrement et sans bulles d'air, jusqu'à ce que le mortier ressorte du capuchon de centrage (contrôle de remplissage).

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

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

Apropiada para mampostería hueca y maciza de ladrillo, bloques de hormigón y mampostería multicapa.

### Hilti HIT-HY 70

**Sólo para uso industrial. Manténgase fuera del alcance de los niños.**

**Véase la Hoja de datos de seguridad de este producto antes de utilizarlo.**

**Atención:** Irrita los ojos y la piel.

Puede provocar sensibilidad en algunas personas.

**Contiene:** Peróxido de dibenzoilo, hidroxipropil metacrilato.

**Precauciones:** Evite el contacto con la piel y los ojos. Utilice siempre guantes de protección impermeables y protección para los ojos cuando utilice este producto. Consérvelo en un lugar fresco y seco. Evite que el producto se congele. No lo deje expuesto a la luz directa del sol.

**Primeros auxilios: Ojos:** Enjuague inmediatamente con agua durante al menos 15 minutos; acuda a un médico. **Piel:** Lave con agua y jabón. Lave bien la ropa contaminada antes de volver a utilizarla. En caso de irritación, acuda a un médico. **Ingestión:** No provoque el vómito a menos que así lo indique un médico. Acuda de inmediato a un médico.

**Inhalación:** Lleve a la persona al aire libre, dele oxígeno si presenta dificultades para respirar. Si los síntomas persisten, acuda a un médico.

#### Indicaciones de reciclaje

##### Cartuchos vacíos:

- Deseche el mezclador enroscado a través del sistema de recogida nacional identificado con el Punto Verde.

##### Cartuchos llenos o parcialmente vacíos:

- Deberán eliminarse como residuos especiales de acuerdo con las normativas oficiales.

Contenido	Número CAS	Contenido	Número CAS
<b>Componente A: (lado grande)</b>		<b>Componente B: (lado pequeño)</b>	
Arena de cuarzo	14808-60-7	Arena de cuarzo	14808-60-7
NJ TSNR	19136100-5003	Agua	07732-18-5
NJ TSNR	19136100-5020	Peróxido de dibenzoilo	00094-36-0
NJ TSNR	19136100-5004	Sílice amorfo	07631-86-9
NJ TSNR	19136100-5022	Dipropilenglicol	25265-71-8
NJ TSNR	19136100-5021		
NJ TSNR	19136100-5002		
NJ TSNR	19136100-5017		
Sílice amorfo	67762-90-7		
Ácido bórico	10043-35-3		

\*NJ TSNR = Número de Registro de Secreto Comercial de Nueva Jersey

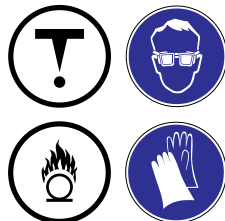
- En caso de emergencia, llame a Chem-Trec: 1-800-424-9300 (EE. UU., Puerto Rico, Islas Vírgenes y Canadá). Resto de países: 001-703-3887

**Garantía:** consulte los términos y condiciones estándar de venta Hilti para obtener más datos sobre la garantía.

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.

**Contenido:** 11.1 fl.oz./330 ml                      16.9 fl.oz./500 ml

**Peso:** 19.0 oz/540 g                                28.9 oz/820 g





## 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 41 °F a 104 °F/de +5 °C a 40 °C
- Temperatura del material base durante la instalación: de 23 °F a 104 °F/de -5 °C a 40 °C
- **Excepción en ladrillos de arcilla huecos, macizos y macizos multicapa:** de 41 °F a 104 °F/de +5 °C a 40 °C
- Condiciones de transporte y almacenamiento: lugar fresco, seco y oscuro con una temperatura de 41 °F a 77 °F/de +5 °C a 25 °C.
- 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, enrosque un nuevo mezclador y deseche la resina inicial.

## ADVERTENCIA

### ! La resina puede salpicar si se utiliza incorrectamente.

- Lleve gafas protectoras, guantes de protección y ropa de trabajo durante el trabajo.
- No comience a exprimir si no se ha roscado el mezclador.
- Enrosque un mezclador nuevo antes de exprimir un cartucho nuevo. Asegúrese de que el asiento sea firme.
- 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 taladro.

- Antes de inyectar la resina, los taladros deben estar libres de restos de perforación, polvo, agua, hielo, aceite, grasa o cualquier otro agente contaminante.
- Soplado del taladro con aire sin aceite hasta que el aire que refluye esté libre de polvo.
- Limpieza del taladro: realícese sólo con un cepillo metálico de tamaño apropiado. Al cepillar el taladro, se notará cierta resistencia en el cepillo. Si no es este el caso, el cepillo es demasiado pequeño y debe cambiarse.

### ! Relleno del taladro en superficies macizas: verifique que el relleno del taladro se produce desde el fondo del taladro y que no se formen burbujas de aire. Si es necesario, utilice las prolongaciones para alcanzar el fondo del taladro.

### ! Relleno del taladro en superficies con cavidades huecas: utilice tacos perforados. Rellene el taco perforado del anillo de centrado hasta que la resina sobresalga de la guía de centrado (control de volumen).

### ! Utilización en obra de fábrica multicapa capas: los tamicos, únicos o en combinación, HIT-SC han de rellenarse fuera de la perforación: Insertar la boquilla mezcladora hasta el fondo del último tamiz utilizando, si es necesario, el prolongador. Durante el llenado con mortero retirar la boquilla, lenta y sucesivamente, cada vez que se impulsa el mezclador, hacia el capuchón centrador. Los tamicos deben llenarse por completo, sin burbujas de aire, hasta que el mortero empiece a salir del capuchón centrador (control de llenado).

### ! El incumplimiento de estas instrucciones puede llevar a una fijación incorrecta.

## Buchas químicas para fixações de ferros e ancoragens

Indicado para alvenaria oca e maça de tijolo, bloco de betão e alvenaria em camadas.

### Hilti HIT-HY 70

**Apenas para finalidades industriais. Manter fora do alcance das crianças.**

**Consulte a ficha de dados de segurança deste produto antes do manuseamento.**

**Atenção:** Irritante para os olhos e pele.

Pode causar sensibilização em indivíduos sensíveis.

**Contém:** peróxido de dibenzoíla, metacrilato de hidroxipropilo

**Medidas de protecção:** Evitar o contacto com a pele e os olhos. Use sempre luvas de protecção impermeáveis e óculos de protecção ao utilizar o produto. Guardar em lugar fresco e seco. Proteger contra congelação. Não guardar exposto à luz solar directa.

**Primeiros socorros: Olhos** – Lavar imediata e abundantemente com água durante pelo menos 15 minutos; consultar um médico. **Pele** – Lavar com água e sabão. Lavar o vestuário contaminado antes de voltar a usá-lo. No caso de irritações consultar um médico. **Ingestão** – Não provocar o vómito sem conselho médico. Consultar imediatamente um médico.

**Inalação** – Retirar o paciente para um local arejado, administrar oxigénio, se estiver com dificuldades de respiração. Consultar um médico, se os sintomas persistirem.

#### Recomendação sobre a eliminação

##### Cartuchos vazios:

- Deixar o misturador enroscado e eliminar através do sistema de recolha "Ponto Verde" nacional.

##### Cartuchos semiusados ou novos:

- Eliminar de acordo com as normas e regulamentações legais sobre resíduos especiais.



#### Ingrediente

#### Número CAS

#### Ingrediente

#### Número CAS

##### Componente A: (lado grande)

##### Componente B: (lado pequeno)

Areia de quartzo	14808-60-7
NJ TSNR	19136100-5003
NJ TSNR	19136100-5020
NJ TSNR	19136100-5004
NJ TSNR	19136100-5022
NJ TSNR	19136100-5021
NJ TSNR	19136100-5002
NJ TSNR	19136100-5017
Silica amorfa	67762-90-7
Ácido bórico	10043-35-3

Areia de quartzo	14808-60-7
Água	07732-18-5
Peróxido de dibenzoíla	00094-36-0
Silica amorfa	07631-86-9
Dipropilenoglicol	25265-71-8

\* NJ TSNR = Número de registo de segredo comercial (Nova Jérssia)

▶ Em caso de emergência, ligue para Chem-Trec: 1-800-424-9300 (EUA, Porto Rico, Ilhas Virgens, Canadá)

**Garantia:** Consulte os termos e condições de venda Hilti padrão para informações sobre garantia.

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.

**Conteúdo:** 11.1 fl.oz./330 ml                      16.9 fl.oz./500 ml

**Peso:** 19.0 oz/540 g                                28.9 oz/820 g

## 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 de dados 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 41 °F e 104 °F/+5 °C e 40 °C
- Temperatura do material base durante a instalação: entre 23 °F e 104 °F/-5 °C e 40 °C
- **Excepção em tijolo de argila oco, maciço e maciço em multi-camada:** entre 41 °F e 104 °F/+5 °C e 40 °C
- Condições de transporte e armazenamento: em lugar fresco, seco e ao abrigo da luz, entre 41 °F e 25 °F/+5 °C e 77 °C.
- 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

#### ! 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.
- 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.

#### ! Enchimento do furo em material base maciço: Assegure que o enchimento do furo é efectuado a partir do fundo e que não se formam bolhas de ar. Se necessário, utilize os prolongadores para alcançar o fundo do furo.

#### ! Enchimento do furo em material base com cavidades: Utilizar uma camisa perfurada. Encher a camisa perfurada a partir da capa de centragem, até a resina sair pela capa de centragem (controlo de enchimento).

#### ! Aplicação de tijolo maciço em multicamada: as camisas perfuradas HIT-SC / combinações de camisas perfuradas têm de ser enchidas for a do furo: Enfiar o misturador até ao fundo da última camisa perfurada (se necessário, utilizar o prolongador). Injectar a resina a partir do fundo da última camisa perfurada e puxar gradualmente a extremidade do misturador até à capa de centragem, passo a passo, após cada pressão no gatilho. As camisas perfuradas HIT-SC devem ser enchidas na totalidade, sem formar bolhas de ar, até que a resina saia pela capa de centragem (controlo de enchimento).

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







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