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## **Announcement new product (Hilti HIT-RE 500 V3) replacement of discontinued product (Hilti HIT-RE 500/Hilti HIT-RE 500-SD)**

Dear Sir/Madam

After several years of intense research and development, Hilti is introducing the new generation of epoxy mortar "Hilti HIT-RE 500 V3 injection mortar system".

The injection system Hilti HIT-RE 500 V3 is now suitable for an even wider range of applications and conditions for added reassurance on your daily designs for both, anchor systems and post-installed rebar applications. HIT-RE 500 V3 offers the most flexible and optimized design for nearly all civil engineering disciplines due to its highest load performance.

Now you can enjoy the following extras under the same conditions, see relevant approval for more details:

- Approved for structural and non-structural applications
- Approved for static, quasi-static and seismic loading (see Table 1)
- Approved in combination with Hilti Hollow Drill Bit (HDB) to ensure a dust free environment during installation and eliminating the most load effective step for chemical anchors, borehole cleaning (SafeSet installation).
- Approved for diamond coring
- Performance in diamond cored drilled holes on the level of hammer drilled holes when the new roughening tool TE-YRT is used (SafeSet installation).
- Applicable for temperature below 0°C
- Significantly reduced curing time ensuring that construction section can be finalized earlier
- Approved for category 1 (C1) application under seismic actions to design according to EOTA TR 045 "Design of Metal Anchors For Use In Concrete Under Seismic Actions, 02/2013"
- For design under static and quasi-static action according to EOTA TR 029 and CEN/TS 1992-4 "Design of fastenings for use in concrete"
- A bundle of technical data for design solutions going beyond the scope of the approval range (oversized borehole, large diameters etc.)

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Table 1

Dynamic loading	Hilti HIT-RE 500		Hilti HIT-RE 500-SD		Hilti HIT-RE 500 V3	
	Anchor	Rebar	Anchor	Rebar	Anchor	Rebar
Shock	x		✓	x	✓ <sup>1)</sup>	x
Fatigue	x			x	x	✓ <sup>1)</sup>
Seismic	x		✓ (C1)	✓	✓ (C1)	✓ <sup>2)</sup>

Overview of dynamic coverage <sup>1)</sup> in progress <sup>2)</sup> Using HIT Rebar-method

We will supply this product to you under the same packaging concept and no changes in the element portfolio.

This being said, you can be certain to specify or install HIT-RE 500 V3 replacing HIT-RE 500 & HIT-RE 500-SD.

However rare cases may arise with internally threaded sleeves HIS-(R)N and HZA-R as anchoring element concerning minimum spacing distances due to changes in the approval guideline. For special applications under special conditions (diamond coring + non-cracked concrete without roughening tool), the bond strength for size M8, M10 & M12 is slightly reduced to take account of the smooth borehole conditions.

In case of questions, please do not hesitate to contact one of our Technical experts or Sales representatives.

Also, from 3<sup>rd</sup> May on, PROFIS Anchor and PROFIS Rebar will be updated with Hilti HIT-RE 500 V3 and you will be able to perform necessary calculations and explore all the potential applications for Hilti injection system.

Yours truly,

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