Measuring Systems

Hilti. Outperform. Outlast.

Laser range meter PD-E

Applications

- ■ Measuring quickly and safely in places where access is difficult
- ■ Measuring heights from floors to ceilings in a one-man operation
- ■ Measuring surface areas for quotations in renovation work
- ■ Easy measurement of roof lengths using the trapezoid function
- ■ Measuring long distances using outdoor mode
- ■ Determining the length or height of objects that cannot be directly accessed (remote measurement)

Advantages

- ■ Measures up to 200 m even under the toughest outdoor conditions
- ■ The outdoor display is readable even in very bright sunlight
- ■ LEDs provide clear identification of the measuring reference and thus help avoid errors
- ■ Built-in 360° tilt sensor for various application possibilities
- ■ Built-in optical viewfinder for outdoor measurements
- ■ Measuring functions are aided by the graphic display

Technical data

Accuracy	±1 mm
Measuring range	0 m - 200 m
Laser class	< 1 mW, 635 nm, Class 2 (IEC 60825-1:2007), Class II (FDA CFR 21 art. 1040)
Calculation functions	Addition, Subtraction, Area, Volume, Painters area, Setting out, min/max, Timer, Offset, Memory (30x), Trapezoid (2x), Pythagoras (3x), Indirect measurement (4x)
Measuring functions	Single and continuous measurement, Outdoor mode, Digital spirit level
IP protection class	IP 65 (EN 60529)
Operating temperature range	-10 - 50 °C
Battery type	2 X 1.5 V (AA)
Operation time with alkaline battery	5000 measurements
Dimensions (LxWxH)	129 x 60 x 28 mm
Weight with batteries	0.2 kg
Automatic Switch-Off	Yes

Order description	Package contents	Sales pack quantity	Item number
PD-E	1x Laser range meter PD-E, 1x Battery AAA (2), 1x Toolbag PDA 65	1	**2062050**

Ferroscan system PS 250

Applications

- Rebar verification and analysis
- Checking concrete coverage over large areas for structural repair work
- Building acceptance inspections and quality control
- Coring and hammer drilling without costly rebar hits and avoidance of damage caused by cutting through structurally significant reinforcement
- Structural assessement report generation including statisitics and visual presentation in 2D/3D views of areas of up to 45x45 m

Advantages

- Scans large areas of concrete quickly and easily
- Provides accurate depth of cover measurements for reinforcement at depths of up to 100 mm
- Records scan data automatically over lengths of up to 30 meters and up to 9 Imagescans
- Displays a clear 2D image of the reinforcement on the monitor for on-the-spot structural analysis and depth of cover assessment

Technical data

Accuracy of depth measurement for rebar[1]	±1 mm
Operating Temperature Range	-10 - 50 °C
Localization accuracy	±3 mm
IP protection class	IP 54
Scanner weight (incl. battery)	2.4 kg
Scanner dimensions	260 mm x 132 mm x 132 mm
Operation time with NiMH battery	8h
Max. detection depth for rebar[1]	180 mm (at 36 mm rebar diameter)
Max. depth for determining rebar diameter[1]	60 mm

[1] Detection performance is depending on depth range and scan mode used

Ordering designation	Package contents	Sales pack quantity	Item number
Ferroscan system PS 250	Scanner, hand strap, scanner pouch, monitor, monitor pouch, battery packs (2), mains adapter (2), data cables (2), headset, adapter PSA 55, reference grids PSA 10 (5), adhesive tape, markers, brush, cleaning cloth, data module, meter stick, operating instructions (3), producer certificates (2), packed in a Hilti case	1	**2044439**
Ferroscan PS 200 S kit	Scanner, hand strap, scanner pouch, battery pack, mains adapter, data cable, adapter PSA 55, reference grids PSA 10 (5), adhesive tape, markers, brush, cleaning cloth, data module, meter stick, carrying belt, operating instructions (2), producer certificate, packed in a Hilti case	1	**2044477**
Monitor PSA 100	Monitor, tool bag, battery pack, mains adapter, data cable, connecting cable, data module, operating instructions, producer certificate, packed in a cardboard box	1	**2006082**

Anchor Systems

Hilti. Outperform. Outlast.

Injectable mortar HIT-RE 500-SD

Base materials
- Concrete (cracked)
- Concrete (uncracked)

Applications
- Substitution of misplaced / missing rebars or couplers
- Fastenings requiring seismic qualification
- Structural connections with post-installed rebar (e.g. extension/ connection to walls, slabs, stairs, columns, foundations, etc.)
- Anchoring structural steel connections (e.g. steel columns, beams, etc.)
- Anchoring secondary steel structures (e.g. balustrades, steel ledgers, etc.)
- Anchoring crash barriers, noise barriers, etc.

Advantages
- Unique foil packaging and compatible Hilti HIT injection system make handling extremely easy and minimize packaging disposal costs
- European Technical Approval covering automatic cleaning of holes drilled using TE-CD or TE-YD drill bits and Hilti vacuum cleaners
- Virtually odourless, hence pleasant to work with
- Works like cast-in with post-installed rebars, convenient and reliable design using the Hilti PROFIS Rebar PC application
- Long working time allows greater flexibility during installation
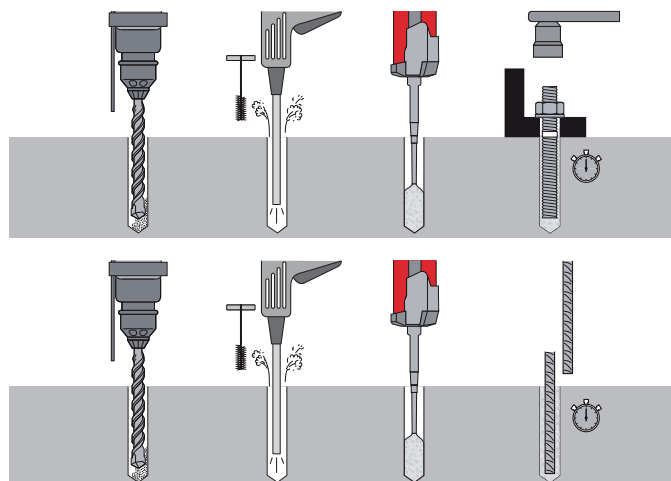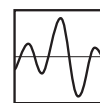- Suitable for use in cracked and uncracked concrete with all anchoring elements

Technical data

Base material condition	Dry, Submerged, Water-filled, Wet
Environmental conditions	Covered by ground soil, Highly corrosive special applications, Indoor, damp conditions, Indoor, dry conditions, Indoor, ventilated facades, Outdoor, Underwater, fresh water, Underwater, salty water
Type of fastening	Pre-fastening, Through-fastening
Cleaning procedures	Compressed-air cleaning
Material composition	Epoxy adhesive
Installation direction	All

Approvals

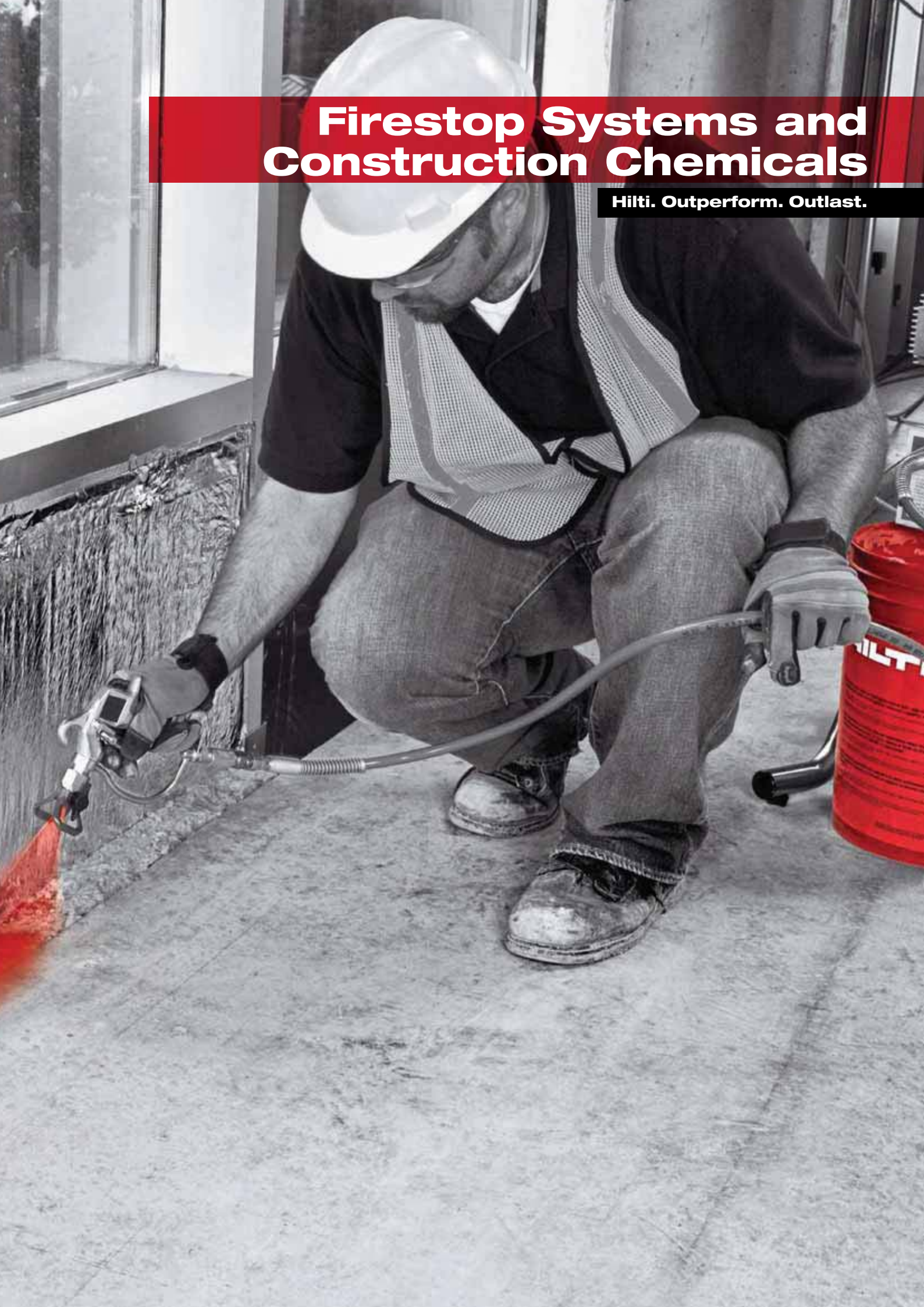| ETA	ETA 09/0295 for HIT-RE 500-SD injection mortar for rebar (ETAG 001-05, Option 1)
ETA, Seismic	ETA 07/0260 HIT-RE 500-SD injection mortar for anchoring applications (ETAG 001-05, Option 1)

Ordering designation	Package contents	Sales pack quantity	Item number
HIT-RE 500-SD/330/1 INT	1x 330ml Foil pack, 1x Mixer, 1x Mixer extension	1	387092
HIT-RE 500-SD/500/1 INT	1x 500ml Foil pack, 1x Mixer, 1x Mixer extension	1	387093

Firestop Systems and Construction Chemicals

HILTI

High performance intumescent firestop sealant FS-ONE MAX

Applications

- Effectively seals most common through penetrations in a variety of base materials
- Mix and multiple penetrations
- Metal pipe penetrations
- Insulated metal pipe penetrations
- Plastic pipe penetrations
- Cable bundles and trays
- HVAC penetrations

Advantages

- One product for a variety of common through penetrations
- Cost-effective and easy-to-use solution
- Water base and paintable
- W-rated systems available
- Ethylene glycol-free
- Industry leading VOC results
- Convenient multi application firestop solution for penetrations

Technical data

Chemical basis	Water-based acrylic dispersion
Base materials	Concrete, Masonry, Drywall
Test in accordance with	ASTM G21 ASTM E 90 CAN/ULC-S115 UL 1479 ASTM E 814 ASTM E84
Approx. cure time [1]	4 mm / 3 days
Application temperature range	41°F to 104°F
Temperature resistance range	-4°F to 212°F
Storage and transportation range	41°F to 77°F
Shelf life [2]	12 Months
Colour	Red
Mold and mildew performance	Class 0 (ASTM G21-13)
Mold and mildew resistant	Yes
Surface burning characteristics (ASTM E 84-14)	Flame Spread: 0 Smoke Development: 10

[1] At 75°F (24°C) and 50% relative humidity
[2] from date of manufacture

Ordering designation	Volume per unit	Packaging	Sales pack quantity	Item number
FS-ONE MAX 5 Gal Pail	19000 ml	Pail	1	**2101536**