

Rapid Set[®] Cement Technology

faster. easier. unique.

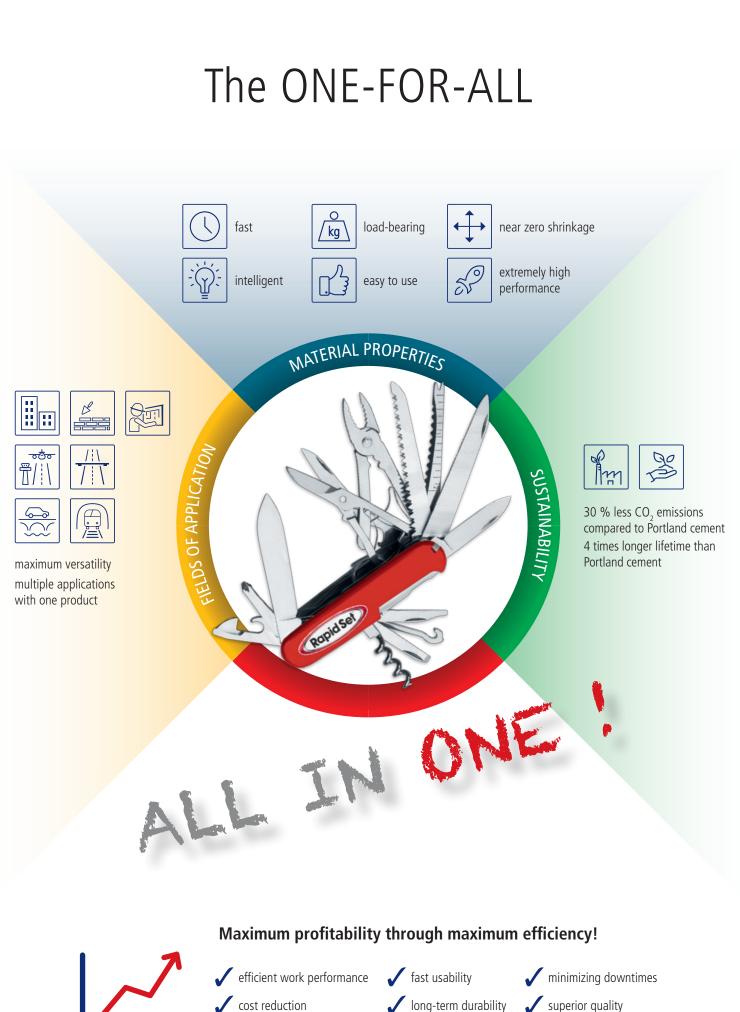


Rapid Set					
MORTAR MIX					
FAST SETTING	LMÖRTEL B REPAIR MORTAR RISE TRES RAPIDE				
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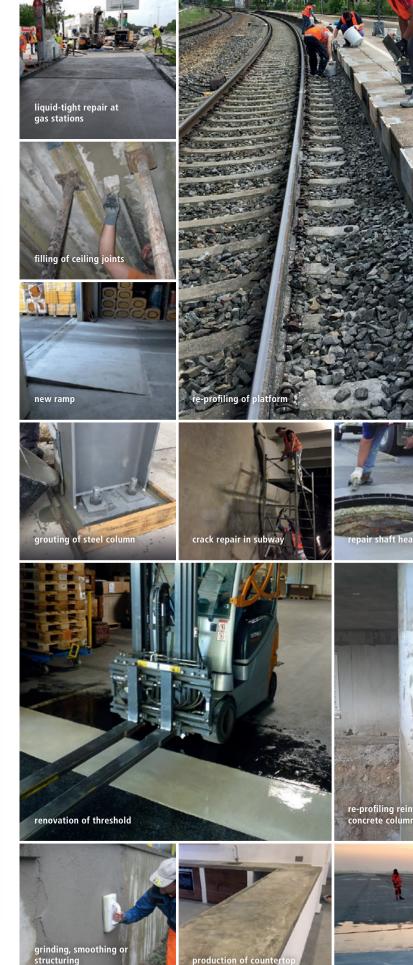
Rapid Set changes the game!



optimizing logistics

Multipurpose

12 months shelf-life



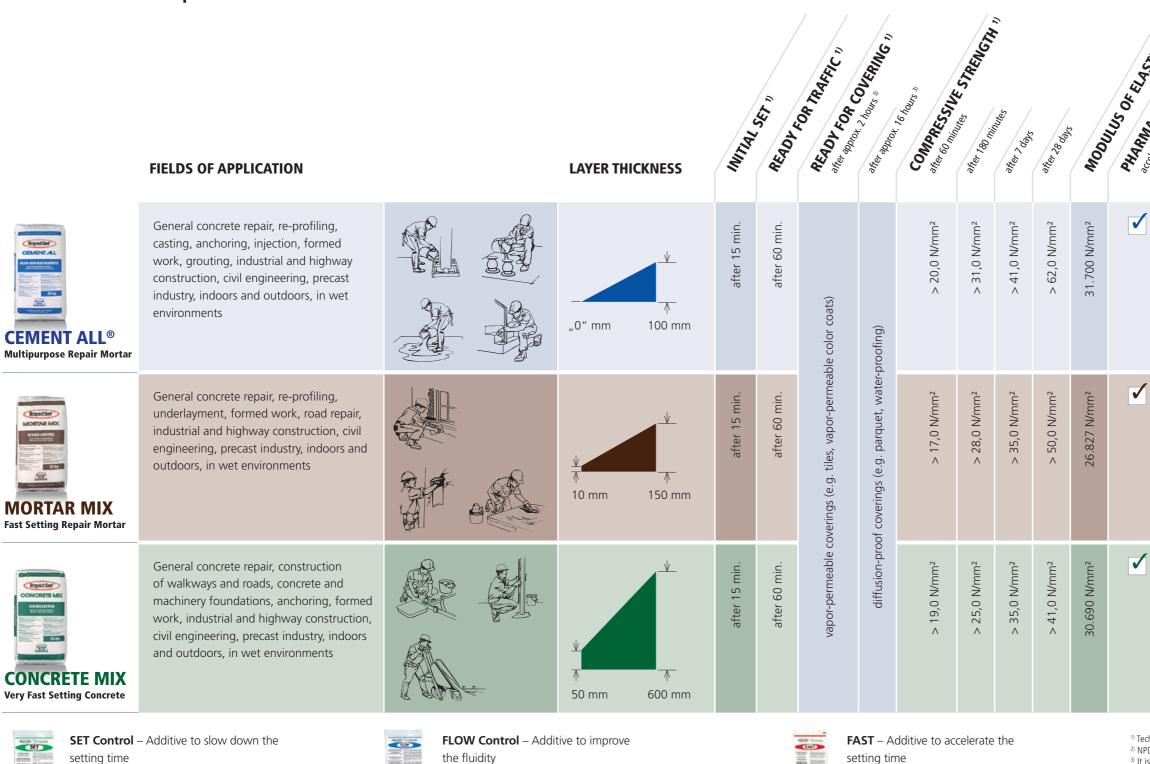






repair at airport (removal and installation overnight)

Unique Rapid Set[®] Products









setting time



Pre-wetting with water





Adding the Rapid Set® repair mortar





Property CV FLASTICITY	SULFAT. Ichan	FROST AND	PENVERCEA REC.	SPECIAL FEATURES
	✓	✓	✓	 near zero shrinkage faster setting higher strength no primer applies to featheredge
✓	√	✓	NPD ²⁾	 near zero shrinkage faster setting higher strength no primer applies overhead
✓		✓	NPD 20	 near zero shrinkage faster setting higher strength no primer applies up to 600 mm

¹⁾ Technical data at + 20°C and 65 % relative air humidity

²⁾ NPD = No Performance Determined

 $^{\scriptscriptstyle 3)}$ It is recommended to check the residual moisture by suitable measuring method

Maximize Performance with Advanced Rapid Set[®] Technology

Reaction Process: Comparison between Portland cement and Rapid Set® Cement

The chemical reaction process of conventional Portland cement in comparison to Rapid Set[®] Cement, a belitic calcium sulfoaluminate (BCSA) cement, differs significantly. Rapid Set[®] Cement with a w/c ratio = 0,45 binds the added water close to 100 % chemically.

Portland Cement

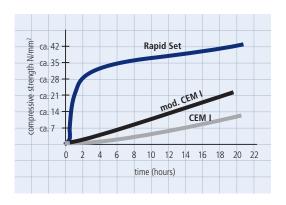


Rapid Set® Cement



Unique Performance of Rapid Set®

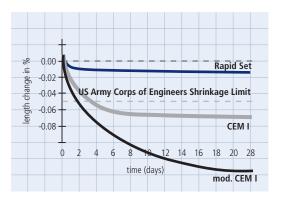
Strength



Rapid Set® - very high strength values after final set

The above graphic shows clearly improved high early strength development of a Rapid Set[®] based system, specially in comparison to conventional Portland cements (CEM I) and modified Portland cements (accelerated). After 1 hour and final set a compressive strength of > 20,0 N/mm² is definitely achieved.

Shrinkage



Rapid Set® – clearly less shrinkage than Portland cement

The above graphic shows typical shrinkage process of conventional binders (CEM I and mod. CEM I) in comparison to the Rapid Set[®] Technology. In the U.S. the limit value for non-shrinkage ranges at < 0,05 % (US Army Corps of Engineers Shrinkage Limit). This is definitely achieved with the Rapid Set[®] Technology.

KORODUR and CTS Cement Two Strong Partners

Exclusive License Partnership for Europe!

In the year 2012 KORODUR, world market leader in hard aggregate industrial flooring, started the exclusive license partnership with the American market leader in high performance cements CTS Cement | Rapid Set[®].

Unique Rapid Set® Technology new in Europe, proved in the U.S.

The American manufacturer and market leader in special cements, CTS Cement, has developed the unique and high performance Rapid Set[®] Technology – entering a new level of cement technology and bringing about solutions for fundamental problems of the construction industry.

The Rapid Set[®] Technology is based on the high performance, innovative, fast and non-shrink hydraulic binder "Rapid Set[®] Cement". The special cement receives its unique character by advanced and precise manufacturing techniques. Rapid Set[®] Cement is not a Portland cement. No chlorides or accelerators are added. Rapid Set[®] Cement provides the Rapid Set[®] repair mortars with their superior and unique efficiency: Already in one hour extremely high strength! Immediate usability! Non-shrink! Multipurpose! Sulfate resistant! Excellent durability! Reduced CO₂ emissions!

Rapid Set[®] stands for Innovation, High Performance and Versatility!

Over the past 40 years Rapid Set[®] Cement has become the first choice of contractors in the U.S. in respect of fast and powerful problem solutions.

Rapid Set[®] Cement – green to the core! Environmentally friendly, durable and LEED compliant.



CTS Cement is a member of the U.S. Green Building Council. Rapid Set[®] Cement cuts CO_2 emissions by 30 % compared to standard Portland cement.







Rapid Set[®] Technology – proved over years in the U.S. Pic. from left: Hoover Dam, Pentagon





Be a game changer :



asvFL

CEMENT ALL® also available in handy 5 kg small containers



LevelFlor[®]

innovative, self-leveling floor underlayment for interior and exterior use

easyFIX crafting with concrete for creative design



RESURFACER

high grade mortar for eroded and worn concrete surfaces, indoors and outdoors, to renew the concrete look

KORODUR Westphal Hartbeton GmbH & Co. KG

KORODUR International GmbH

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