

**CONCRETE REPAIR PRODUCTS**

**KING PRODUCT TRAINING PROGRAMS**

Customized training programs ranging from 1-hour “lunch box” presentations to full day “hands on” training sessions are available at any time to contractors, distributors, architects and consulting engineers. To arrange a training session that suits your needs, simply contact your King Technical Sales Representative.



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**CONCRETE REPAIR, PATCHING AND RESURFACING APPLICATION CHART**

	CONCRETE REPAIR PRODUCTS						CONCRETE PATCHING AND RESURFACING PRODUCTS					GROUTING PRODUCTS										
	FA-S6 CONCRETE	FA-S10 CONCRETE	MS-S6 CONCRETE	MS-S10 CONCRETE	LM-S10 CONCRETE	MS SELF-CONSOLIDATING CONCRETE	DUO-CRETE	DUO-CRETE UW	DUO-CRETE CT	SUPER-TOP OV	REDI-PLUG	MS CABLE GROUT	IN-PAKT CONSTRUCTION GROUT			IN-PAKT PRECISION GROUT			IN-PAKT PRECISION CT GROUT			
													Dry Pack	Plastic	Fluid	Dry Pack	Plastic	Fluid	Dry Pack	Plastic	Fluid	
<b>THICKNESS MINIMUM</b>	25 mm (1 inch)	38 mm (1½ inch)	25 mm (1 inch)	38 mm (1½ inch)	38 mm (1½ inch)	50 mm (2 inches)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	n/a	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)
<b>THICKNESS MAXIMUM</b>	150 mm (6 inches)	500 mm (20 inches)	150 mm (6 inches)	500 mm (20 inches)	300 mm (12 inches)	500 mm (20 inches)	38 mm (1½ inch)	50 mm (2 inches)	38 mm (1½ inch)	38 mm (1½ inch)	60 mm (2 ½ inches)	n/a	50 mm (2 inches)	50 mm (2 inches)	50 mm (2 inches)	50 mm (2 inches)	50 mm (2 inches)	50 mm (2 inches)	50 mm (2 inches)	50 mm (2 inches)	50 mm (2 inches)	50 mm (2 inches)
<b>APPLICATIONS</b>	Form & Place	Form & Place	Form & Place	Form & Place	Form & Place	Closed Form & Place	Hand Patch	Hand Patch	Hand Patch	Hand Patch	Hand Patch & Plug	Cable Grouting	Hand Patch	Hand Patch	Form & Place	Hand Patch	Hand Patch	Form & Place	Hand Patch	Hand Patch	Form & Place	
<b>PUMPABLE</b>	Yes	Yes	Yes	Yes	No	Yes	No	No	No	No	No	Yes	No	No	Yes	No	No	Yes	No	No	Yes	
<b>SET TIME (INITIAL)</b>	8 hours	8 hours	8 hours	8 hours	8 hours	8 hours	25 minutes	30 minutes	5 minutes	25 minutes	1 minute	8 hours	3 hours	3 hours	6.5 hours	3 hours	3 hours	6.5 hours	3 hours	3 hours	5.5 hours	
<b>SET TIME (FINAL)</b>	10 hours	10 hours	10 hours	10 hours	10 hours	10 hours	45 minutes	45 minutes	7 minutes	45 minutes	2 minutes	10 hours	3.5 hours	3.5 hours	8.5 hours	3.5 hours	3.5 hours	8.5 hours	3.5 hours	3.5 hours	7 hours	
<b>COMPRESSIVE STRENGTH</b>																						
<b>1-DAY</b>	25 MPa (3625 psi)	25 MPa (3625 psi)	20 MPa (2900 psi)	20 MPa (2900 psi)	10 MPa (1500 psi)	10 MPa (1500 psi)	15 MPa (2175 psi)	20 MPa (2900 psi)	20 MPa (2900 psi)	25 MPa (3625 psi)	24 MPa (2320 psi)	28 MPa (4060 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	20 MPa (2900 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	20 MPa (2900 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	15 MPa (2175 psi)	
<b>3-DAY</b>	30 MPa (4350 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	25 MPa (3625 psi)	20 MPa (2900 psi)	25 MPa (3625 psi)	25 MPa (3625 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	27 MPa (3900 psi)	32 MPa (4640 psi)	40 MPa (5800 psi)	45 MPa (6525 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	50 MPa (7250 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	40 MPa (5800 psi)	30 MPa (4350 psi)	20 MPa (2900 psi)	
<b>7-DAY</b>	35 MPa (5075 psi)	35 MPa (5075 psi)	35 MPa (5075 psi)	35 MPa (5075 psi)	25 MPa (3625 psi)	30 MPa (4350 psi)	30 MPa (4350 psi)	35 MPa (5075 psi)	25 MPa (3625 psi)	30 MPa (4350 psi)	40 MPa (5800 psi)	45 MPa (6525 psi)	50 MPa (7250 psi)	35 MPa (5075 psi)	30 MPa (4350 psi)	55 MPa (7975 psi)	45 MPa (6525 psi)	40 MPa (5800 psi)	45 MPa (6525 psi)	45 MPa (6525 psi)	35 MPa (5075 psi)	
<b>28-DAY</b>	45 MPa (6525 psi)	45 MPa (6525 psi)	45 MPa (6525 psi)	45 MPa (6525 psi)	35 MPa (5075 psi)	40 MPa (5800 psi)	35 MPa (5075 psi)	40 MPa (5800 psi)	30 MPa (4350 psi)	35 MPa (5075 psi)	45 MPa (6525 psi)	60 MPa (8700 psi)	65 MPa (9425 psi)	40 MPa (5800 psi)	35 MPa (5075 psi)	70 MPa (10150 psi)	55 MPa (7975 psi)	50 MPa (7250 psi)	55 MPa (7975 psi)	55 MPa (7975 psi)	40 MPa (5800 psi)	
<b>WORKING TIME</b>	60 minutes	60 minutes	60 minutes	60 minutes	60 minutes	60 minutes	10 minutes	5 minutes	5 minutes	20 minutes	15 seconds	15 minutes	30 minutes	60 minutes	60 minutes	30 minutes	60 minutes	60 minutes	30 minutes	60 minutes	60 minutes	
<b>PACKAGING</b>	BAG 30 kg (66 lb.)	BAG 30 kg (66 lb.)	BAG 30 kg (66 lb.)	BAG 30 kg (66 lb.)	BAG 30 kg (66 lb.)	BAG 30 kg (66 lb.)	BAG 25 kg (55 lb.)	BAG 25 kg (55 lb.)	BAG 25 kg (55 lb.)	BAG 18.5 kg (40.8 lb.)	PAIL 20 kg (44 lb.)	BAG 30 kg (66 lb.)	BAG 25 kg (55 lb.)			BAG 25 kg (55 lb.)			BAG 25 kg (55 lb.)			

**CONCRETE REPAIR PRODUCTS**

How does a successful concrete repair start?



Mixing Strength With Satisfaction

Your project is always unique, and often comes with its own, unique set of challenges.

Let our team of professionals develop an innovative, pre-packaged solution that answers **your** needs and meets **your** project challenges.

## With an innovative approach and time tested materials

Let your King representative show you how our time tested, pre-packaged materials can eliminate the guess work and simplify your concrete repairs.

# Concrete Repair and Rehabilitation: *Our Philosophy*

### QUALITY PRODUCTS

A successful project starts with quality products. Anything less puts even the best construction crews at a disadvantage. Through our philosophy of continuous improvement King Packaged Materials Company ensures that each bag of product contains the same, consistent quality components, allowing the construction crews to focus on getting the job done.

### SIMPLE TO USE

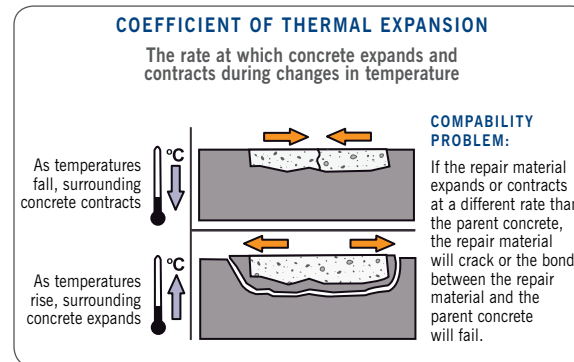
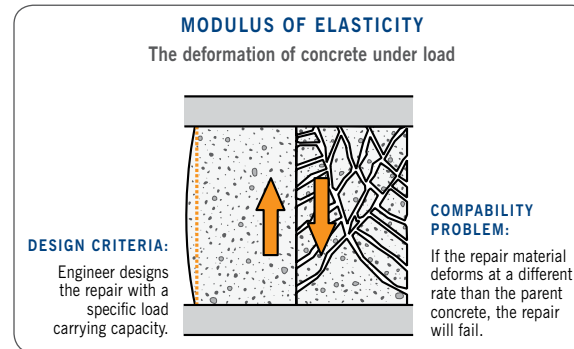
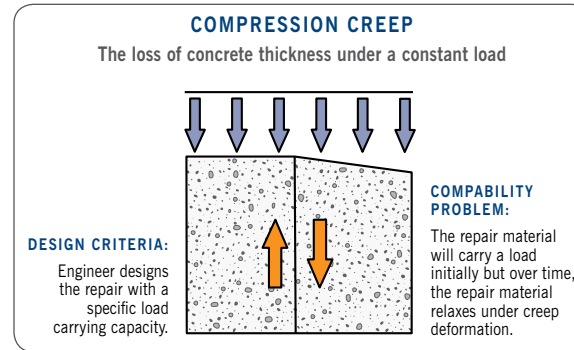
All of King's products are designed to take away the guess work. Unique products containing a wide range of admixtures require only the addition of water. Liquid polymers, aggregates and other on-site additives that can complicate the mixing process are not required.

### CONCRETE PATCHING VS. CONCRETE REPAIR

Exterior concrete is susceptible to damage when continuously exposed to freeze/thaw cycles and the actions of de-icing salts. Areas with minor surface scaling will require patching using concrete patching and resurfacing products. Structural repairs which often require partial and full depth replacement of concrete, should be repaired with concrete. The reason is simple. Compatibility of repair materials is crucial. King's philosophy... "Patch Concrete with Patching Materials", Re-surface Concrete with Re-surfacing Materials, but "Repair Concrete with Concrete".

## REPAIRING CONCRETE WITH CONCRETE

### The importance of compatible properties



### CONCRETE REPAIR PRODUCTS



#### FA-S6 Concrete

Fly ash enhanced, high performance, concrete repair material for partial depth repairs.



#### FA-S10 Concrete

Fly ash enhanced, synthetic fiber reinforced, high performance, multi purpose, concrete repair material.



#### MS-S6 Concrete

Silica fume enhanced, high performance, concrete repair material for partial depth repairs.



#### MS-S10 Concrete

Silica fume enhanced, synthetic fiber reinforced, high performance, multi purpose, concrete repair material.



#### LM-S10 Concrete

Latex modified, one component, high performance, multi purpose, concrete repair or overlay material.



#### MS Self-Consolidating Concrete

Silica fume enhanced, high performance, self-consolidating concrete repair material.

### CONCRETE PATCHING AND RESURFACING PRODUCTS



#### Duro-Crete

High performance, fast setting concrete repair mortar for partial depth repairs.



#### Duro-Crete CT

High performance, fast setting concrete repair mortar for cold temperature applications.



#### Duro-Crete UW

High performance, fast-setting, concrete repair mortar for underwater repairs.



#### Super-Top OV

High performance, one component, polymer modified concrete repair mortar for overhead, vertical or horizontal applications.



#### Duro-Cure

Duro-Cure is water based, white pigmented, concrete curing compound. It is formulated specifically for use with all King concrete repair, patching and resurfacing products.



#### Redi-Plug

Fast-setting hydraulic cement compound for concrete patching and repair. Stops flowing water and sets within 30 seconds after mixing under normal jobsite conditions.

### GROUTING PRODUCTS



#### In-Pakt Construction Grout

General purpose, pumpable, non-shrink, cementitious grout.



#### In-Pakt Precision Grout

High performance, pumpable, non-shrink, cementitious grout. Also available as In-Pakt Precision CT Grout for cold temperature applications.



#### MS Cable Grout

Neat, silica fume enhanced, high performance, shrinkage compensated anchoring grout.

### MASONRY PRODUCTS



#### KING 1-1-6 Mortar

Type N mortar specifically designed for use with clay, concrete, and stone masonry units.



#### King Block Mortar

Type S mortar specifically designed for use with concrete block.



#### MasonCare 300

Type O mortar specifically designed for use in re-pointing and non-load-bearing wall applications.