

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 book a training session that suits your needs, contact your King Technical Sales Representative.



Distributed by:



KING PACKAGED MATERIALS COMPANY
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CONCRETE REPAIR, PATCHING, RESURFACING AND GROUTING 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-S6 CONCRETE	LM-S10 CONCRETE	MS-S6 SELF-CONSOLIDATING CONCRETE	MS-S10 SELF-CONSOLIDATING CONCRETE	HP-S6 CONCRETE	HP-S10 CONCRETE	DURO-CRETE	DURO-CRETE CT	DURO-CRETE UW	SUPER-TOP OV	IN-PAKT CONSTRUCTION GROUT			IN-PAKT PRECISION GROUT			IN-PAKT PRECISION CT GROUT			MS CABLE GROUT
															Dry Pack	Plastic	Fluid	Dry Pack	Plastic	Fluid	Dry Pack	Plastic	Fluid	
THICKNESS MINIMUM	25 mm (1 inch)	38 mm (1½ inch)	25 mm (1 inch)	38 mm (1½ inch)	25 mm (1 inch)	38 mm (1½ inch)	38 mm (1½ inch)	50 mm (2 inches)	25 mm (1 inch)	38 mm (1½ 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)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	6 mm (¼ inch)	n/a
THICKNESS MAXIMUM	150 mm (6 inches)	600 mm (24 inches)	150 mm (6 inches)	600 mm (24 inches)	150 mm (6 inches)	300 mm (12 inches)	150 mm (6 inches)	600 mm (24 inches)	150 mm (6 inches)	600 mm (24 inches)	38 mm (1½ inch)	38 mm (1½ inch)	38 mm (1½ inch)	38 mm (1½ inch)	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)	n/a
APPLICATIONS	Form & Place	Form & Place	Form & Place	Form & Place	Form & Place	Form & Place	Closed Form & Place	Closed Form & Place	Form & Place	Form & Place	Hand Patch	Hand Patch	Hand Patch	Hand Patch	Hand Patch	Hand Patch	Form & Place	Hand Patch	Hand Patch	Form & Place	Hand Patch	Hand Patch	Form & Place	Cable Grouting
PUMPABLE	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No	No	No	No	No	No	Yes	No	No	Yes	No	No	Yes	Yes
SET TIME (INITIAL)	8 hours	8 hours	8 hours	8 hours	8 hours	8 hours	8 hours	8 hours	4 hours	4 hours	25 minutes	5 minutes	30 minutes	25 minutes	3 hours	3 hours	6.5 hours	3 hours	3 hours	6.5 hours	3 hours	3 hours	5.5 hours	8 hours
SET TIME (FINAL)	10 hours	10 hours	10 hours	10 hours	10 hours	10 hours	10 hours	10 hours	6 hours	6 hours	10 minutes	7 minutes	45 minutes	45 minutes	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	10 hours
COMPRESSIVE STRENGTH																								
1-DAY	15 MPa (2175 psi)	15 MPa (2175 psi)	20 MPa (2900 psi)	20 MPa (2900 psi)	10 MPa (1500 psi)	10 MPa (1500 psi)	10 MPa (1500 psi)	10 MPa (1500 psi)	40 MPa (5800 psi)	40 MPa (5800 psi)	15 MPa (2175 psi)	20 MPa (2900 psi)	20 MPa (2900 psi)	25 MPa (3625 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)	28 MPa (4060 psi)
3-DAY	30 MPa (4350 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	25 MPa (3625 psi)	20 MPa (2900 psi)	20 MPa (2900 psi)	25 MPa (3625 psi)	25 MPa (3625 psi)	45 MPa (6525 psi)	45 MPa (6525 psi)	25 MPa (3625 psi)	25 MPa (3625 psi)	30 MPa (4350 psi)	27 MPa (3900 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)	40 MPa (5800 psi)
7-DAY	35 MPa (5075 psi)	35 MPa (5075 psi)	35 MPa (5075 psi)	35 MPa (5075 psi)	25 MPa (3625 psi)	25 MPa (3625 psi)	30 MPa (4350 psi)	30 MPa (4350 psi)	50 MPa (7250 psi)	50 MPa (7250 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	35 MPa (5075 psi)	30 MPa (4350 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)	45 MPa (6525 psi)
28-DAY	45 MPa (6525 psi)	45 MPa (6525 psi)	45 MPa (6525 psi)	45 MPa (6525 psi)	35 MPa (5075 psi)	35 MPa (5075 psi)	40 MPa (5800 psi)	40 MPa (5800 psi)	60 MPa (8700 psi)	60 MPa (8700 psi)	35 MPa (5075 psi)	30 MPa (4350 psi)	40 MPa (5800 psi)	35 MPa (5075 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)	60 MPa (8700 psi)
WORKING TIME	60 minutes	60 minutes	60 minutes	60 minutes	60 minutes	60 minutes	60 minutes	60 minutes	30-45 minutes	30-45 minutes	10 minutes	5 minutes	5 minutes	20 minutes	30 minutes	60 minutes	60 minutes	30 minutes	60 minutes	60 minutes	30 minutes	60 minutes	60 minutes	15 minutes
PACKAGING	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 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.)	BAG 25 kg (55 lb.)			BAG 25 kg (55 lb.)			BAG 25 kg (55 lb.)			BAG 30 kg (66 lb.)

CONCRETE
REPAIR
PRODUCTS

How do
you start a
successful
concrete
repair project?



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.

An innovative approach with time-tested materials

Let your King Representative show you how our tried-and-true, pre-packaged materials can eliminate the guess work and simplify your concrete repair projects.

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, consistently high-quality components, which allows construction crews to focus on getting the job done.

SIMPLE TO USE

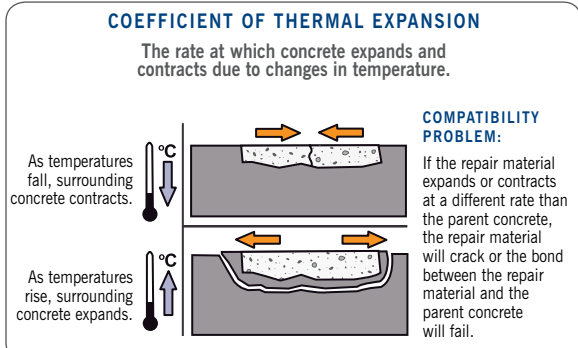
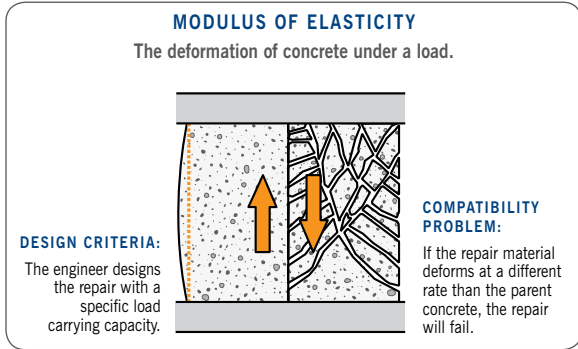
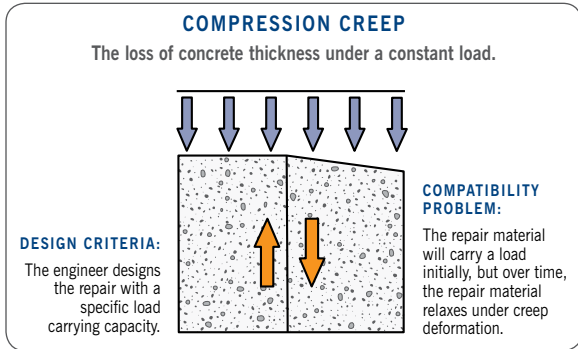
All King products are designed to take away the guess work. Our products contain a wide range of admixtures and only require the addition of water. Liquid polymers, aggregates and other on-site additives that can complicate the mixing process are not required.

CONCRETE PATCHING VS. CONCRETE REPAIR

Exterior concrete is susceptible to damage when continuously exposed to freeze-thaw cycles and de-icing salts. Areas with minor surface scaling will need to be patched 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, as compatibility of repair material is crucial. King's philosophy is to 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, containing 6 mm (1/4 inch) stone and intended for partial depth repairs.



FA-S10 Concrete

Fly ash enhanced, synthetic fiber reinforced, high performance, multi-purpose, concrete repair material, containing 10 mm (3/8 inch) stone and intended for partial and full depth repairs.



MS-S6 Concrete

Silica fume enhanced, high performance, concrete repair material, containing 6 mm (1/4 inch) stone and intended for partial depth repairs.



MS-S10 Concrete

Silica fume enhanced, synthetic fiber reinforced, high performance, multi-purpose, concrete repair material, containing 10 mm (3/8 inch) stone and intended for partial and full repairs.



LM-S6 Concrete

High performance, polymer modified, pre-packaged concrete repair material, containing 6 mm (1/4 inch) stone and intended for partial depth repairs.



LM-S10 Concrete

High performance, polymer modified, pre-packaged, concrete repair material, containing 10 mm (3/8 inch) stone and intended for partial and full depth repairs.



MS-S6 Self-Consolidating Concrete

Silica fume enhanced, high performance, self-consolidating, concrete repair material, containing 6 mm (1/4 inch) stone and intended for partial depth repairs.



MS-S10 Self-Consolidating Concrete

Silica fume enhanced, high performance, self-consolidating, concrete repair material, containing 10 mm (3/8 inch) stone and intended for partial and full depth repairs.



HP-S6 Concrete

High performance, rapid hardening, pre-packaged concrete material, containing 6 mm (1/4 inch) stone and intended for partial depth repairs.



HP-S10 Concrete

High performance, rapid hardening, pre-packaged, multi-purpose, concrete material, containing 10 mm (3/8 inch) stone and intended for partial and full depth repairs.

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.

GROUTING PRODUCTS



In-Pakt Construction Grout

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



In-Pakt Precision Grout

High performance, pumpable, non-shrink, cementitious grout.



In-Pakt Precision CT Grout

High performance, pumpable, non-shrink, cementitious grout for cold temperature applications.



MS Cable Grout

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

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	FA-S6 CONCRETE	FA-S10 CONCRETE	MS-S6 CONCRETE	MS-S10 CONCRETE	HP-S6 CONCRETE	HP-S10 CONCRETE	LM-S6 CONCRETE	LM-S10 CONCRETE	MS-S6 SELF-CONSOLIDATING CONCRETE	MS-S10 SELF-CONSOLIDATING CONCRETE	DURO-CRETE	DURO-CRETE UW	DURO-CRETE CT	SUPER-TOP OV	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
THICKNESS MINIMUM	25 mm (1 inch)	38 mm (1½ inch)	25 mm (1 inch)	38 mm (1½ inch)	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)	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)
THICKNESS MAXIMUM	150 mm (6 inches)	600 mm (24 inches)	150 mm (6 inches)	600 mm (24 inches)	150 mm (6 inches)	600 mm (24 inches)	150 mm (6 inches)	300 mm (12 inches)	150 mm (6 inches)	600 mm (24 inches)	38 mm (1½ inch)	38 mm (1½ inch)	38 mm (1½ inch)	38 mm (1½ inch)	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)
APPLICATIONS	Form & Place	Form & Place	Form & Place	Form & Place	Form & Place	Form & Place	Form & Place	Form & Place	Closed Form & Place	Closed Form & Place	Hand Patch	Hand Patch	Hand Patch	Hand Patch	Cable Grouting	Hand Patch	Hand Patch	Form & Place	Hand Patch	Hand Patch	Form & Place	Hand Patch	Hand Patch	Form & Place
PUMPABLE	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No	No	No	No	Yes	No	No	Yes	No	No	Yes	No	No	Yes
SET TIME (INITIAL)	8 hours	8 hours	8 hours	8 hours	4 hours	4 hours	8 hours	8 hours	8 hours	8 hours	25 minutes	30 minutes	5 minutes	25 minutes	8 hours	3 hours	3 hours	6.5 hours	3 hours	3 hours	6.5 hours	3 hours	3 hours	5.5 hours
SET TIME (FINAL)	10 hours	10 hours	10 hours	10 hours	6 hours	6 hours	10 hours	10 hours	10 hours	10 hours	10 minutes	45 minutes	7 minutes	45 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
COMPRESSIVE STRENGTH																								
1-DAY	15 MPa (2175 psi)	15 MPa (2175 psi)	20 MPa (2900 psi)	20 MPa (2900 psi)	40 MPa (5800 psi)	40 MPa (5800 psi)	10 MPa (1500 psi)	10 MPa (1500 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)	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)
3-DAY	30 MPa (4350 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	25 MPa (3625 psi)	45 MPa (6525 psi)	45 MPa (6525 psi)	20 MPa (2900 psi)	20 MPa (2900 psi)	25 MPa (3625 psi)	25 MPa (3625 psi)	25 MPa (3625 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	27 MPa (3900 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)
7-DAY	35 MPa (5075 psi)	35 MPa (5075 psi)	35 MPa (5075 psi)	35 MPa (5075 psi)	50 MPa (7250 psi)	50 MPa (7250 psi)	25 MPa (3625 psi)	25 MPa (3625 psi)	30 MPa (4350 psi)	30 MPa (4350 psi)	30 MPa (4350 psi)	35 MPa (5075 psi)	25 MPa (3625 psi)	30 MPa (4350 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)
28-DAY	45 MPa (6525 psi)	45 MPa (6525 psi)	45 MPa (6525 psi)	45 MPa (6525 psi)	60 MPa (8700 psi)	60 MPa (8700 psi)	35 MPa (5075 psi)	35 MPa (5075 psi)	40 MPa (5800 psi)	40 MPa (5800 psi)	35 MPa (5075 psi)	40 MPa (5800 psi)	30 MPa (4350 psi)	35 MPa (5075 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)
WORKING TIME	60 minutes	60 minutes	60 minutes	60 minutes	30-45 minutes	30-45 minutes	60 minutes	60 minutes	60 minutes	60 minutes	10 minutes	5 minutes	5 minutes	20 minutes	15 minutes	30 minutes	60 minutes	60 minutes	30 minutes	60 minutes	60 minutes	30 minutes	60 minutes	60 minutes
PACKAGING	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 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.)	BAG 30 kg (66 lb.)	BAG 25 kg (55 lb.)			BAG 25 kg (55 lb.)			BAG 25 kg (55 lb.)		

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