

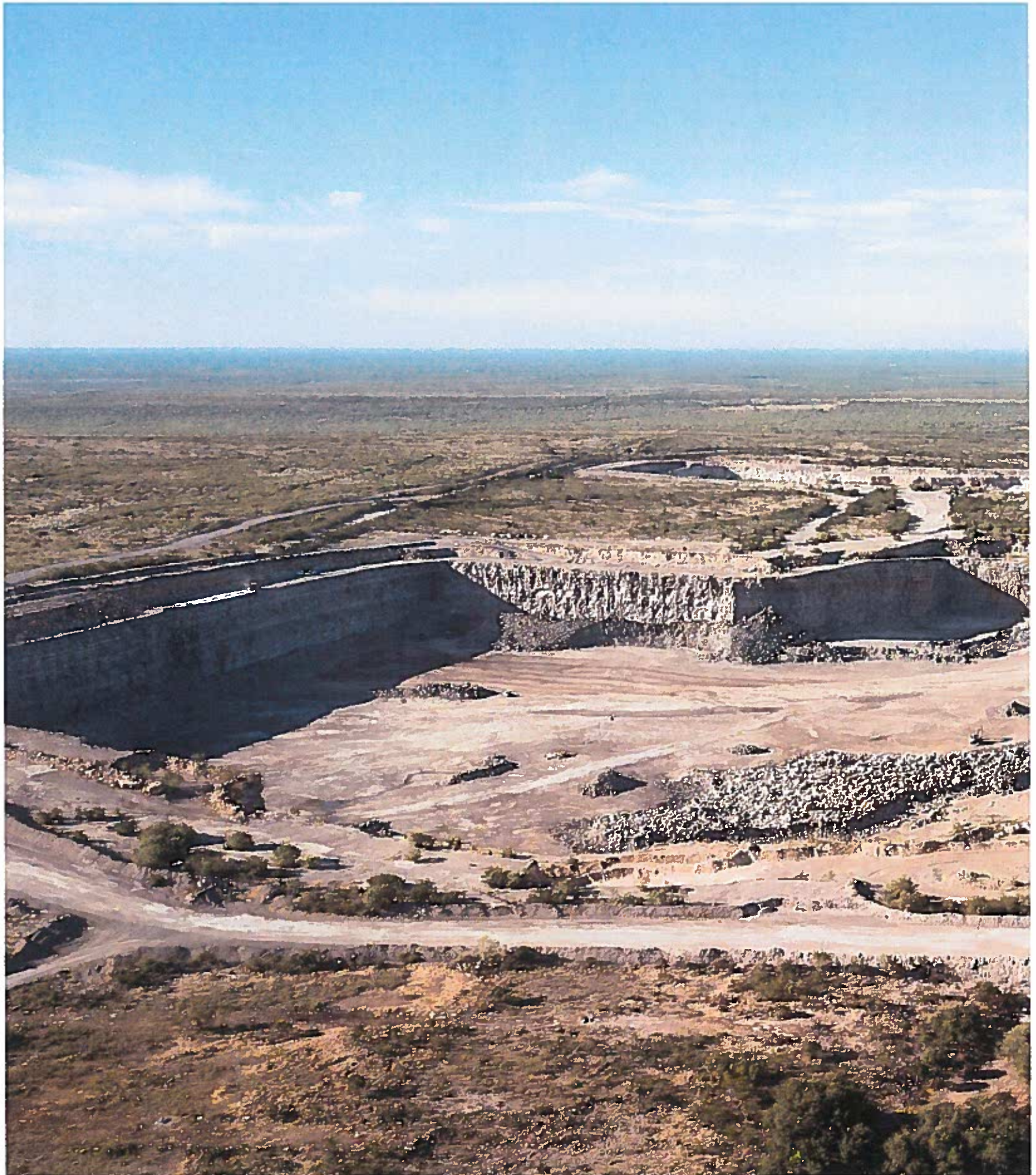
NATURE'S FINEST  
LIMESTONE ROCK  
**ASPHALT**



WHEN YOU NEED IT  
WHERE YOU NEED IT

**Vulcan**  
Materials Company





# VULCAN MATERIALS COMPANY

At Vulcan's mining and process facility in Uvalde, Texas. Vulcan combines our proprietary premix additives, stringent quality control procedures, and limestone to bring you the premier cold mix asphalt product available for paving and patching in the Texas market.

## VULCAN'S LIMESTONE ROCK ASPHALT IS THE RIGHT PRODUCT FOR YOU

### YIELD ADVANTAGE



Has a 10% yield advantage over most competing products

### SHELF LIFE



Can be stored in a stockpile for months\*\*

### WORKABILITY



Has superior workability in both winter and summer

Available in a full range of products from coarse base to fine surface products. Our customer service team is ready to assist you with ensuring you get the best product for your next resurfacing, maintenance or new construction paving project.

Vulcan's Limestone Rock Asphalt is the right product for you.  
Give us a call today for immediate delivery by rail or truck.  
**GET A QUOTE TODAY FROM OUR DABNEY QUARRY!**  
**1-830-278-6205**

# LIMESTONE ROCK ASPHALT PREMIX TYPES AND USES

Limestone Rock Asphalt Premix is the choice for asphalt stabilized base, level up, paving, patching or covering flushed or bleeding surfaces. LRA meets the specifications required by TxDOT Item 330 Type I. All mixes can be used in a lay down machine or blade application.

## COMPACTED THICKNESS PER LIFT

TYPE OF MIX	MIN. INCHES	MAX. INCHES*	APPLICATION	TYPICAL USES
AA (Black Base)	1.5	4.0	Coarse Base	Deep Pot Holes, Utility Cuts, Edge Repairs, Bond Under Concrete or Under Finish Layer of Asphalt
A	1.5	4.0	Medium Base	Deep Pot Holes, Utility Cuts, Edge Repairs, Under the Finish Layer of Asphalt, Finish Surface for Heavy Traffic Areas, Ranch Roads, Alleys (Where cosmetic appearance is not important)
B	1.0	3.0	Fine Base/ Coarse Surface	Riding or Finish Surface for Heavy Traffic Areas, Ranch Roads, Alleys (Where cosmetic appearance is not important)
C	0.75	2.0	Medium Surface	Riding or Finish Surface (Medium to Heavy Traffic)
CC	0.75	1.75	Medium Surface/ Level-up	Riding or Finish Surface (Medium to Heavy Traffic)
D	0.5	1.5	Fine Surface/ Level-up	The Universal Mix, Used Primarily for Patching and Level Ups. Parking Lots, Driveways, Tennis/Basketball Courts (Gives a Smooth Riding/Walking Surface)

\*Maximum Single Lift Thickness    \*\*Typical shelf life is 3-6 months depending on weather conditions

## MASTER GRADING ROCK ASPHALT PREMIX TYPE 1 (Percent Retained By Weight)

SIEVE SIZE	TYPE					
	AA Coarse Base	A Medium Base	B Fine Base	C Coarse Surface	CC Medium Surface	D Fine Surface
1 1/2"	0	—	—	—	—	—
1 1/4"	0-10	—	—	—	—	—
1"	—	0	—	—	—	—
7/8"	15-30	0-2	—	—	—	—
5/8"	—	5-15	0	—	—	—
1/2"	—	—	0-2	0	0	—
3/8"	25-45	25-35	5-15	0-2	0-2	0
1/4"	—	—	—	—	—	0-2
No. 4	45-60	50-60	45-60	35-50	35-50	5-15
No. 10	60-75	65-75	60-75	65-80	50-65	50-65

# LIMESTONE ROCK ASPHALT TRAPMIX TYPES AND USES

Limestone Rock Asphalt Trapmix is the choice for pavements needing extra strength and durability. Trapmix is a specific blend of limestone rock asphalt and traprock. Traprock is a black, basaltic stone typically with L.A. loss less than 15 and magnesium sulfate loss of less than 8. The combination of LRA and traprock aggregates, make an exceptionally durable, rut and skid resistant pavement. LRA Trapmix meets the specifications required by TxDOT Item 330 Type II.

All mixes can be used in a lay down machine or blade application.

## TRAPMIX KEY FEATURES

The choice for pavements needing extra strength & durability



Excellent Skid Resistance



Hveem Stability 45 to 50 Typical



High Polish Value



Covers Bleeding Surfaces

### COMPACTED THICKNESS PER LIFT

### TYPICAL USES

TYPE OF MIX	MIN. INCHES	MAX. INCHES*	APPLICATION	TYPICAL USES
CS	0.75	2.0	Medium Surface	Overlaps and Level Ups
DS	0.5	1.5	Fine Surface	Overlaps and Level Ups
FS	0.5	1.0	Thin Surface	Overlaps and Level Ups

\*Maximum Single Lift Thickness

\*\*Typical shelf life is 3-6 months depending on weather conditions

## MASTER GRADING ROCK ASPHALT TRAPMIX TYPE II (PERCENT RETAINED BY WEIGHT)

SIEVE SIZE	TYPE		
	CS	DS	FS
1"	—	—	—
7/8"	—	—	—
5/8"	0	—	—
1/2"	0-2	0	0
3/8"	0-10	0-2	—
1/4"	—	—	—
#4	35-55	10-25	0-15
#10	60-75	50-65	35-50

# CONSTRUCTION

## BLADE LAY

### SUGGESTED EQUIPMENT



Road Grader / Maintainer



12 ton or heavier pneumatic roller  
with tires at 90 psi or more



12 ton or heavier  
steel wheel roller

### RECOMMENDATIONS

Don't over blade the material (will cause raveling on the surface).

Compact the mix thoroughly.

Finish with steel wheel roller.

## PAVER LAID

### SUGGESTED EQUIPMENT



Road Grader / Maintainer



12 ton or heavier  
steel wheel roller



15 ton pneumatic roller

### RECOMMENDATIONS

Lay the LA Premix or Trapmix at a moisture content between 4 – 6%.

Use the same proper HMA paving procedures when paving with LRA.

Control the thickness of mat laid.

Start rolling when the water sheen leaves the mix. Do not rush rolling.

Typically a steel wheel roller is used for breakdown rolling.

Follow the breakdown compaction with a pneumatic roller.

Finish with flat wheel roller to remove roller marks and add final compaction.

Open pavement to straight line traffic.

For parking lots, and so forth, where there will be turning vehicles, let the pavement cure overnight without traffic.

Reroll the pavement the next day with pneumatic and steel rollers.

\*\* Limit water on rollers and shut off water flow when stopping roller on pavement to prevent water marks

Note: you cannot over-compact LRA with a pneumatic roller. Pumping indicates a sub-grade problem.

# L I M E S T O N E R O C K A S P H A L T

## L R A P R E M I X

### TONS OF LRA PREMIX - UVALDE (100 IBS / SQ YD @ 1")

AREA IN SQUARE FT.	AREA IN SQUARE YDS.	THICKNESS		
		1"	1½"	2"
5,000	556	28	42	56
10,000	1,111	56	83	111
20,000	2,222	111	167	222
30,000	3,333	167	250	333
40,000	4,444	222	333	444
50,000	5,556	278	417	556
60,000	6,667	333	500	667
70,000	7,778	389	583	778
80,000	8,889	444	667	889
90,000	10,000	500	750	1,000
100,000	11,111	556	833	1,111
110,000	12,222	611	917	1,222
120,000	13,333	667	1,000	1,333
130,000	14,444	722	1,083	1,444
140,000	15,556	778	1,167	1,556
150,000	16,667	833	1,250	1,667
160,000	17,778	889	1,333	1,778
170,000	18,889	944	1,417	1,889
180,000	20,000	1,000	1,500	2,000
190,000	21,111	1,056	1,583	2,111
200,000	22,222	1,111	1,667	2,222
210,000	23,333	1,167	1,750	2,333
220,000	24,444	1,222	1,833	2,444
230,000	25,556	1,278	1,917	2,556

# TROUBLESHOOTING

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**Q. The stockpile is soaking wet. The freshly produced material has been soaked by rainfall. What do I do?**

A. Aerate the stockpile to reduce the moisture content. Then start paving.

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**Q. The mix won't set up. Why?**

A1. A mix that moves or pumps under traffic indicates that the mix still contains too much water that needs to be removed by windrowing and rolling with a pneumatic roller.

A2. The mix was placed too thick. If additional pneumatic rolling doesn't tighten up the mix, then remove and windrow to get the excess water out, then relay at recommended thickness.

A3. The base is too wet or was not completely compacted. Repair the base before trying to compact the premix or trapmix.

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**Q. Why is the mix raveling?**

A1. Incomplete compaction. Completely roll the mat before opening pavement to traffic.

A2. For some trapmixes, slight raveling is normal. After a day or two of traffic, the raveling stops.

A3. Blade Lay – over worked the mix.

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**Q. How soon can the premix or trapmix pavement be opened to traffic?**

A. If the traffic will be going in the same direction as the paving operation, the pavement can be opened as soon as the rollers finish. Traffic will help finish compacting the pavement. If the pavement will receive a lot of power steering marks, or other high pressure tire turning traffic, allow the pavement to cure for a day. Then reroll the pavement with a pneumatic roller. Smooth out roller marks as needed with a flat wheel roller. Pavement will cure and can be opened to traffic quicker on hot, dry, and windy days.

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# TROUBLESHOOTING

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**Q. The mix is sticking to the wheels of the roller. How do I correct the problem?**

**A. Wait until the mix changes colors from a shining brown to a dull color.**

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**Q. How quickly do I need to roll LRA mixes?**

**A. Roll the mix after the initial water sheen leaves the pavement surface. Time is not important, getting the moisture out is.**

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**Q. Can I get compaction with a lighter roller?**

**A. Not recommended. Compaction can be achieved by using thinner lifts and more roller passes.**

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## NOTICE

Vulcan believes that the information, proposed solutions, and recommendations contained in this brochure are accurate and reliable. However, Vulcan makes no guarantees with respect to the results of a particular application of the advice in this brochure and disclaims any warranties in connection with the proposed solutions and recommendations.

**VULCAN'S LIMESTONE ROCK ASPHALT  
IS THE RIGHT PRODUCT FOR YOU**

**PREMIX**



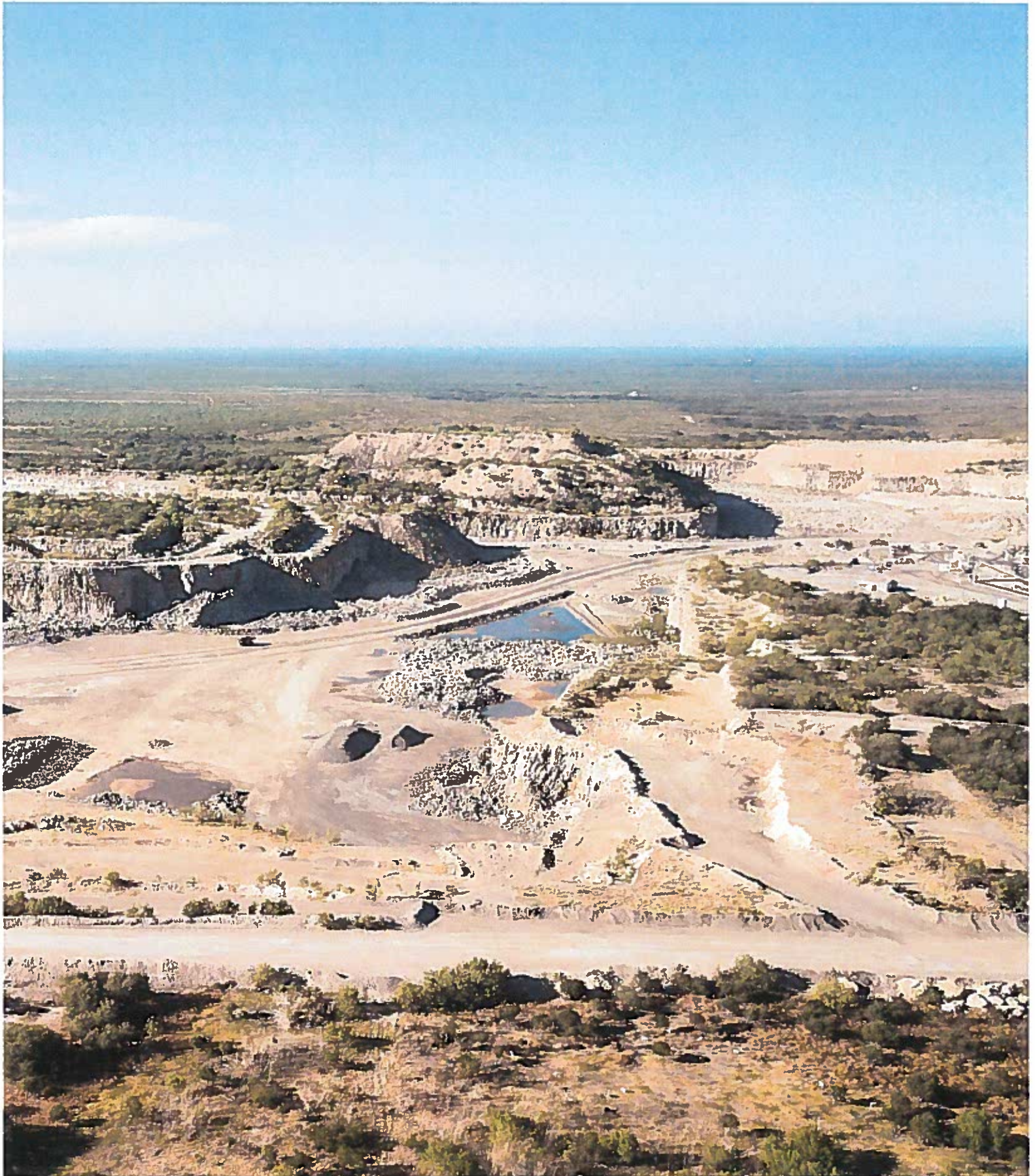
Ideal for asphalt  
stabilized base, level up,  
paving, patching or covering  
flushed or bleeding surfaces.

**TRAPMIX**



Ideal for pavements needing  
extra strength, durability  
and improvements of skid  
resistant values.

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