

RANSROADMIX-PHR

(INSTANT READYMIX POTHOLE REPAIRING COMPOUND/MORTAR)

RECPL-801

OVERVIEW

RANSROADMIX-PHR is an instant ready-mix pothole road repairing compound which is manufactured with a blend of bitumen, aggregates and high grade polymers to ensure immediate bonding with existing surface. Repair of heavily trafficked road and airfield pavements using conventional materials and procedures is difficult, inconvenient to user and generally not very satisfactory. For such locations, ready to use patching materials to up-keep pavement traffic worthy, are essential.

PROPERTIES

- Repair is possible in all adverse climates be it hot, cold, snow or rain.
- No wastage of materials and the manpower is needed minimum.
- A very common problem of urban areas is repair of utility cuts in the pavement. These mixes provide quick and efficient repair with least interference with traffic.
- Quality of mix is consistent & Patches are more stable.
- Ready to use patching mix needs very little time for application at site (Environment Friendly).
- Pavement become traffic worthy soon after application no curing period is needed.
- Preparation of surface for repairs is minimal.
- Special Ready Mix Bituminous Paint.

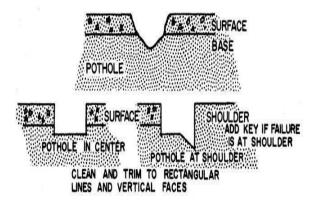
INSTRUCTIONS FOR USE

(REPAIRING A POTHOLE) 1st method

1. **Marking -** The area surrounding the pothole should be marked off with the sides of the area parallel to the direction of traffic (fig-1). The area marked should include all surrounding weak material.



2. Removing of Failure area - The failed area should be removed (fig-2), including base material that may be weak. A rectangular hole with vertical edges should be cut to hold the patching material against the push of traffic. All loose and defective material should be removed. When a patch is placed adjacent to the shoulder of a road or airfield, the patch should be keyed to the shoulder as shown in fig-2.



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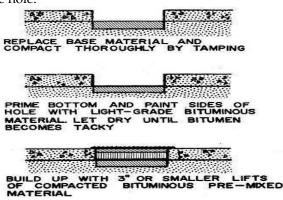


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3. Filling the Base - To replace the base, the bottom of the hole should be refilled in thin layers with new base material and each layer tamped thoroughly. The base material should consist of approximately ¾ inch crushed stone. The pothole should be filled to the level of the bottom of the wearing surface if the wearing surface is more than 2 inches thick. If the wearing surface is less than 2 inches thick, it should be refilled to within 2 inches of the top of the hole.



- 4. Applying Tack Coat A light tack coat should be applied on the new base material and on the sides and around the edges of the hole. The tack coat provides a bond between the new base material and the patching mix. The tack coat should become sticky before the patching mix is placed.
- materials should be shoveled into place, not dumped or dropped. The patch is leveled by slight raking. Dumping or dropping the premix produces a compacted area that must be turned or moved to obtain a uniform texture. Heavy raking is used only for feather-edging patches. The coarse material is pushed to-ward the center of the patch with the back of the rake. For small surface applications, the aggregate is spread with shovels as evenly as possible. Slight sweeping or raking is necessary for uniform application. Bituminous patches must be

- **6.** compacted to obtain the required density and to seal the aggregate. For small repairs where use of the roller is impracticable, or for larger repairs not accessible to power rollers, the patch should be hand tamped, leaving a slight crown for further compaction.
 - 7. Compacting To compact the surface the top of the patch should be sprinkled lightly with wet sand so that the roller and traffic will not pick up the mix while it is hardening. Tampers or rollers should be used for compaction or a truck may be driven slowly over the patch.

2ND METHOD:-

All loose material of potholes are cleaned off with the brushes. Loose edges are to remove with chisel and hammer. Then mix is filled up with shovels/hand. The loose material is to be leveled, brought to shape then compacted with conventional rammer. The traffic can be opened immediately.

<u>PRECAUTION:</u> Mix only the required quantity of material, which can be utilized within stipulated pot life to avoid solidification.

Wash all the tools and tackles with industrial solvent immediately after the application is completed.

HEALTH & SAFETY

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

PACKGING & STORAGE

RANSROADMIX-PHR is pre-packaged system available in 25kgs PP/Paper Bags.

Store containers in a clean dry area protected from direct sunlight and extreme heat and cold. Unopened containers can be stored for 12 months.



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TECHNICAL DATA

Product	Instant Pothole Repairing Compound
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Troduct Instant rothole Repairing	Compound		
Aggregate Grading			
Sieve Size (mm)	% of Passing (Average)		
10	95-100		
4.75	60-70		
2.36	12-15		
0.075	2-3		

Volatile matter content, Max 0.95%

Stability Time Relationship, 35% strength within 30 minutes

Min 70% strength within 24 hours

Effect of water on stripping characteristics ASTM D-1075

Water Sensitivity - Nil

Loss of stability on immersion in water at 60 °C

- \triangleright Bonding Strength, kg/cm² 2.5 ± 0.25
- ➤ Skid Resistance values using BPT *Min*

Dry 90 Wet 70

It confirms to good skid resistance properties

Effect of Temperature on marshal stability and flow values

Temperature °C Stability in Kg Min
25 1575
40 600
500

Bitumen Content 6.00 ± 0.5 Service Temperature $+5^{\circ}$ C to $+65^{\circ}$ C

Packaging 25 kgs. **Storage** 6 months in original unopened containers.

PICTURES/IMAGES AT GLANCE





RANS ENGINEERING & CHEMICALS PVT. LTD

[An ISO 9001: 2015 Company] 205, GALI NO-7, A BLOCK, BRIJPURI YAMUNA VIHAR, NEW DELHI-110094

CONTACT AT: +91-11-22170895, +91-9871393743

Website: www.ransengineering.com Email: ransengineering@gmail.com