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Processing video
REMAREP ULTRA 10

<https://bit.ly/2yu9wXq>

REMAREP ULTRA 10

Processing instructions

REMAREP ULTRA 10 is suitable for repairing damage to cover plates and longitudinal cracks in conveyor belts, temporary sealing of punctures in conveyor belts, filling of joints in rubber linings and repairs to PU, PVC and elastomer components. Only use the repair material as described in this processing instructions.

General notes

- please store the REMAREP ULTRA 10 cartridges at 17°C - 29°C in their original packaging, the shelf life then is 12 months from the date of manufacture
- opened cartridges can be reused for up to 30 days
- only use REMAREP ULTRA 10 cartridges with the provided static mixers and cartridge guns
- avoid direct contact with the material
- variations in temperature and moisture absorption lead to slightly different curing processes
- please follow the instructions to ensure a correct application and check the material before installation
- for larger repairs a second employee could be available to prepare additional cartridges
- Observe the general safety regulations, hazard warnings on the containers and wear personal protective equipment

Required tools and accessories



Cleaner Solvent CF-R4
+ cleaning cloth
+ hand brushes



angle polisher/belt grinder
+ grinding wheels/grinding belts



REMAREP ULTRA 10 cartridge gun
(plastic housing or metal housing)



adhesive CEMENT SC4000 + HARDENER ER-42
or HARDENER E-40 + measuring cup
+ brush + stirring plug



REMAREP ULTRA 10 210 ml cartridges
+ static mixer + foil

If you have any questions about processing, please contact remarep@tiptop.de.

Repair system REMAREP ULTRA 10

1. Measure

- calculate or estimate the volume of the repair area
- provide the number of repair materials and accessories

NOTE: Approximately 200 cm³ can be repaired with one REMAREP ULTRA 10 cartridge



Image 1

2. Clean

- remove loose rubber residues
- clean damage with cleaner SOLVENT CF-R4 and a cloth



Image 2

3. Rough

- buff the damage with an adjustable grinding machine (max. 2,000 1/min) and grinding wheels grain 24
- bevel the edge area to approx. 45°



Image 3

4. Apply

- mix 2-component adhesive CEMENT SC4000 with 4 % HARDENER ER-42 or HARDENER E-40 (pot life: 2 hours)
- apply adhesive thin and evenly
- drying time: approx. 30 minutes



Image 4

Repair system REMAREP ULTRA 10

5. Prepare

- insert the cartridge into the applicator gun
- remove the union nut from the cartridge seal and pull out the plug (keep the plug for reclosing if necessary)
- allow repair material to leak onto e.g. a foil (only a few drops) that both components are visible in equal quantities at the opening
- place the static mixer on the cartridge and close with the union nut

NOTE: To prevent premature reaction and the constipation of the mixer, do not yet operate the applicator gun. If necessary, the cartridge can be removed after these steps to prepare the required number for repair areas $> 200\text{cm}^3$

6. Process

- in order to achieve an optimum mixing of the components, it is necessary to first apply a small amount of REMAREP ULTRA 10 to e.g. a foil (place directly next to the repair area) and fill the prepared position in one step without removing
- pressurize the cartridge with the REMAREP ULTRA 10 cartridge gun and completely fill the repair area without interruption

Processing notes:

- in case of interruption of processing or partial emptying, the static mixer is useless within a few seconds. If the remaining contents of the cartridge should again be used, install a new static mixer or remove the static mixer and reclose the plug for later use.
- for repair areas $> 200\text{ cm}^3$ or change of the static mixer continue filling the repair area within 3 minutes. After 3 minutes, follow the steps of the processing instructions again.
- the reaction and curing time can be influenced by heat. The reaction time by heating the cartridges (max. 50°C) can be reduced. The curing process can be reduced by using a hot air blow dryer (max. 50°C)



Image 5.1



Image 5.2



Image 6.1



Image 6.2



Image 6.3

Repair system REMAREP ULTRA 10

7. Grind the repair area

- after at least 20 - 30 minutes of curing, smoothly grind the repair area with an adjustable grinder/angle polisher with max. 2,000 1/min
- the repair area should slightly be recessed in the cover plate



Image 7

8. Finished repair area

- allow the repair area to cure for at least 60 minutes from filling before restarting the system in light operation. The final curing time of REMAREP ULTRA 10 is approx. 8 hours at 24°C, afterwards, the system is fully loadable again

Note: The above information results from practical tests. As we don't have any influence on different materials and working conditions, we recommend to always carry out sufficient in-house tests. Liability can't be derived from these instructions.



Image 8

REMAREP ULTRA 10 – FAQs

What are the advantages of REMAREP ULTRA 10?

See REMAREP ULTRA 10 flyer:

- Very short curing time
- Rapid increase in hardness
- Good adhesion properties on rubber surfaces
- Red Signal Color
- Particular resistant to abrasion
- Excellent oil and diesel fuel resistance properties
- Moderate resistance against chemicals
- Simple handling with the help of the REMAREP ULTRA 10 cartridge guns
- No mixing required prior to application
- Application on inclined and vertical surfaces possible
- Material remains usable up to 30 days after opening

What are the applications?

Conveyor belt repair and cosmetic repairs on PU, PVC and elastomer components.

What kind of conveyor belts can be repaired?

All rubber qualities, PU and PVC.

What types of damage can be repaired?

Small repairs of cover plate damages, longitudinal cracks, punctures in rubber and fabric as well as for steel cord belts.

How much can be repaired with one cartridge?

200 cm³ are possible with one cartridge.

How do I know how much repair material I need?

Calculate or estimate the volume (l x w x h) of the repair area.

Hardness of REMAREP ULTRA 10 after 15 minutes curing?

Approx. 65 Shore A on average.

Hardness of REMAREP ULTRA 10 after 60 minutes curing?

Approx. 73 Shore A on average.

How many employees are necessary for the repair?

Smaller repairs such as longitudinal cracks up to 1.00 m - 1.50 m or hole repairs (punctures, cover plate damages) up to 15 cm x 15 cm can be carried out by one employee.

Recommendation: For larger repairs prepare a sufficient number of cartridges, due to the short interruption time of max. 3 minutes. This step can be carried out by a second employee if necessary.

How long does a repair with REMAREP ULTRA 10 take?

Depending on the size of the repair area.

On average, a small puncture or small longitudinal crack takes approx. 1 hour (from cleaning to completion).

How long does a repair job last?

REMAREP ULTRA 10 has been developed to temporarily repair small damages easy and fast.

If the preparation of the repair area and the repair is done according to the instructions, as long as the belt.

When can the secondary treatment of the conveyor belt be started?

Between 20-30 minutes, depending on the temperature.

Can the repaired conveyor belt be operated before REMAREP ULTRA 10 is completely cured?

Our recommendation is after 1 hour curing at normal temperature.

When is the curing of REMAREP ULTRA 10 completed?

After about eight hours.

Does additional heat during the curing process affect the quality of REMAREP ULTRA 10?

No, when supplied in moderation. Only the curing time of REMAREP ULTRA 10 is reduced.

At what temperature is the application still possible?

At approx. +10 °C without any assistive devices (e.g. heating etc.).

What temperatures does REMAREP ULTRA 10 withstand after curing?

-40°C to +120°C.

What is the long-term stability of the dye from REMAREP ULTRA 10?

6 months are guaranteed, afterwards the material might be a little darker.

How does REMAREP ULTRA 10 wear out compared to the conveyor belt?

Similar to a conveyor belt.

Does REMAREP ULTRA 10 lose elasticity over time?

No.

Does REMAREP ULTRA 10 have an underground approval?

No.

Do scrapers damage REMAREP ULTRA 10 repair areas?

No, problems should not appear if the repair is professionally carried out and if the repair area is slightly recessed in the cover plate (approx. 1 mm).

REMAREP ULTRA 10 – FAQs

Is REMAREP ULTRA 10 available in different package sizes?

No, only 210 ml.

What preparations are necessary?

See processing instructions.

Which tools are required?

See processing instructions.

Is a primer required - e.g. SC 4000 + HARDENER?

A primer is recommended for a permanent repair.

I have filled in REMAREP ULTRA 10 and did not have enough. How can I complete my repair?

Continue with next cartridge within 3 minutes.
Prepare again after 3 minutes.

What to do if the material in the mixing nozzle is starting to harden?

Dispose of the old mixing nozzle and use a new one from the supplied material.

Is REMAREP ULTRA 10 oil resistant?

Yes.

Is REMAREP ULTRA 10 resistant to UV radiation?

Yes.

Is REMAREP ULTRA 10 resistant to diesel fuel?

Yes.

Is REMAREP ULTRA 10 resistant to solvents?

To a limited extent.

Is REMAREP ULTRA 10 resistant to moisture?

Yes.

Does REMAREP ULTRA 10 contain solvents?

No, 100% solvent-free.

Does REMAREP ULTRA 10 protect against corrosion?

During a steel cord belt repair the steel strand is protected against corrosion.

Do you have to get a cartridge gun to be able to use REMAREP ULTRA 10?

Yes, due to a 210 ml cartridge size a corresponding REMA TIP TOP AG cartridge gun has to be purchased. REMA GOO cartridge guns are not suitable.

What is the difference between a plastic and a metal housing cartridge gun?

The metal housing cartridge gun provides a better handling, is easier to use and of higher quality. Furthermore, a more precise dosage is possible, no leaking and less effort is required.

Is REMAREP ULTRA 10 manufactured by REMA TIP TOP ?

Yes.

Can I carry out repairs on my conveyor belt when the belt is not unloaded?

Yes, REMAREP ULTRA 10 is developed to flow into the repair area.

Why do I need other REMA TIP TOP repair products in addition to REMAREP ULTRA 10?

REMAREP ULTRA 10 has been developed for temporary repairs. For all other applications where the tensile load on the belt must be transferred, we recommend alternatively using REMA TIP TOP products such as fabric-reinforced repair strips and repair sheets or hot vulcanization material. Ask your REMA TIP TOP contact for the best solution.

Can REMAREP ULTRA 10 be used as an adhesive?

No.

Is there a technical product data sheet?

Yes.



Your local contact



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