



CRACK CHECKING SYSTEM

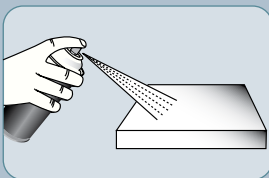


Using vision is the easiest and simplest way to inspect the defective area. The solution is suitable for penetration to seep into the cracks and crevices. Red Penetrant and White Developer were put into set of spray can for convenient of use.

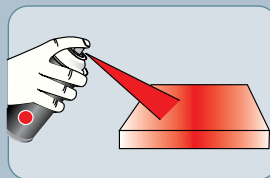
Dye Penetrant Crack Checking System has been widely accepted as one of the best and the simplest non-destructive testing method for the inspection of crack on the surface of non-porous material.

■ ■ ■ Instructions ■ ■ ■

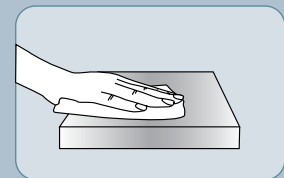
1. Test part must be clean and dry before applying penetrant.



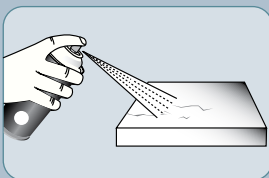
2. Spray penetrant to cover test area and allow to dwell for 5-10 minutes.



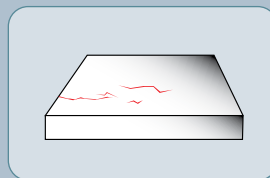
3. Then, remove the excess red from the surface by wiping with a clean cloth moistened with cleaner/remover.



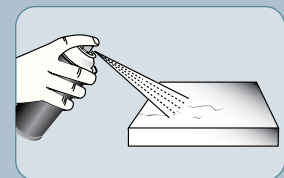
4. Hold can 20-30cm from area to be inspected and spray in such a manner, that just a white and thin background is produced on the surface.



5. Development is complete after 5-10 minutes.



6. All crack checker should be cleaned after checking by Spray Cleaner.



Method of Inspection

1. Prepare the Surface

Use KERNIK Spray Cleaner to clean the surface of the material by spray the cleaner on the desired surface area then wipe with a clean cloth.

■ Caution

Do not use wire brush or sandpaper to clean because this will damage the surface of the material, which will reduce the efficiency when checking the crack by dye penetrant method.



2. Apply Red Penetrant On the Inspecting Surface

Spray the KERNIK Red Penetrant on the inspecting surface area. Wait for 3-5 minutes to be sure that the Penetrant is already permeated into the crack area.

3. Remove Excess Penetrant

After waiting for 3-5 minutes, remove the excess Red Penetrant on the surface by clean cloth, which has been premoistened with KENIK Spray Cleaner.

■ Caution

Do not apply KERNIK Spray Cleaner on the surface of material directly because the Spray Cleaner will draw the penetrant back to the surface.

4. Apply White Developer

Apply KERNIK White Developer on the surface with equal thickness. Shake well before use.

5. Inspect

After apply KERNIK White Developer, the Red Penetrant in the crack will be pull up to the surface. For the large crack, it will show immediately, while for the small cracks it may take a few minutes.

6. Surface Cleaning

After inspection, clean the material and remove all the penetrant by using KERNIK Spray Cleaner.

