



Penetrant Testing

Product information

MR[®] 699 FA Penetrant fluorescent



MR[®] 699 FA Penetrant fluorescent Level 0,5

for penetrant testing according to EN ISO 3452-1:2013

very good washability

General appearance and composition:

- Water removable penetrant fluorescent, type I acc. to EN ISO 3452-1:2013
- Water mixable
- Free of mineral oil
- Very good biodegradability according to EN ISO 9888
- Suitable for all metals (suitability for plastics and ceramics needs testing prior to use)
- Very good washability
- Very low background fluorescence
- Processing temperature +10 °C and +50 °C
- Low water risk class WGK 1 (Germany)

Relevant approvals and specifications

- Sample testing acc. to EN ISO 3452-2:2006
- Sensitivity class 0,5 acc. to EN ISO 3452-2:2006

System IAc

- Remover: Water
- Developer: MR[®] 703 W

- Sensitivity class 2 acc. to EN ISO 3452-2:2006

System IAd

- Remover: Water
- Developer: MR[®] 70

- Sensitivity class 2 acc. to EN ISO 3452-2:2006

System IAa

- Remover: Water
- Developer: MR[®] 81 T-R

- Low content of halogens and sulphur according to EN ISO 3452-2:2006

Application:

- Remove tinter, rust and other contaminations from surface in a suitable manner. A possible precleaner for removal of oils or fats is e.g. our remover MR[®] 79, MR[®] 85 or MR[®] 88.
- Apply MR[®] 699 FA Penetrant fluorescent to the part to be tested either by spraying, brushing, flooding or dipping. Allow to penetrate for at least 5 minutes.
- Remove excess penetrant from surface with water.
- Wet developer:
Spray MR[®] Developer from a distance of approx. 20 cm on the dry surface. When using MR[®] water developer we recommend the use of our spraying unit MR[®] 8020 Hot-Air Equipment. Please note: If the developer layer is too thick tiny discontinuities will not appear through the developer.
- Powder Developer:
Dust MR[®] Powder developer on dry surface (e.g. with electrostatic spray gun or powder ball).
- Under UV-light surface defects will appear as yellow-green fluorescent indications.



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Minimum shelf life:

- Will keep for a minimum of 4 years, stored at room temperature

Pack sizes:

- 5 L, 30 L, 200 L

Biodegradability

General:

MR[®] 699 FA Penetrant fluorescent was tested regarding biodegradability by an independent institute, using the "Zahn-Wellens" method.

Result:

- The wash water containing 699 FA Penetrant fluorescent is 99 % biodegradable if it contains max. 1 % of pure MR[®] 699 FA Penetrant fluorescent.

Our customers' advantages:

- Once the local operator of the purification plant grants permission, the wash water from excess penetrant removal may be lead into the drains.
- The mixing with further waste waters which may occur in your house needs additional examination prior to discharge of sewage!
- Waste water treatment can be dispensed with, thereby reducing costs.

Our recommendation:

- Ask for a copy of the test report and further documentation for presentation at your local operator of the purification plant!

We shall be pleased to assist you.