

## FAQ - Radcon Formula #7

### WHAT MAKES RADCON FORMULA #7® SPECIAL?

Radcon is a permanent waterproofing system that reactivates upon contact with water, sealing even micro-cracks. It requires no maintenance and significantly increases concrete hardness.

### HOW DEEP DOES RADCON PENETRATE CONCRETE?

Depending on the concrete quality, penetration is between 14 mm and 20+ mm; in old mortar joints over 60 mm – deep enough for long-term waterproofing.

### IS RADCON ENVIRONMENTALLY FRIENDLY?

Yes, it is non-toxic, VOC-free, and certified for potable water use (e.g., Ecospecifier, Green Label).

### WHAT TYPES OF STRUCTURES CAN BE WATERPROOFED WITH RADCON?

Any cement-based concrete such as roofs, bridges, decks, water tanks etc. Not suitable for cement types lacking free calcium.

### WHAT ARE THE ADVANTAGES OF RADCON COMPARED TO TRADITIONAL WATERPROOFING?

Fast application, no protective layer needed, maintenance-free, and no damage risk during construction.

### HOW DOES RADCON SELF-HEAL CRACKS?

Radcon remains reactive in the concrete. When exposed to water, the gel expands and seals new cracks up to approx. 1 mm automatically.

### IS RADCON SAFE FOR DRINKING WATER OR SENSITIVE ENVIRONMENTS?

Yes, it is certified for potable water applications and has even been used in marine aquariums.

## Additional Technical Questions

### HOW IS RADCON APPLIED?

It is sprayed onto clean, dry concrete. The surface must be watered for three days to activate the reaction.

### CAN RADCON BE USED ON PREVIOUSLY TREATED CONCRETE?

Yes, provided there are no water-repellent residues preventing absorption. Old coatings may need to be removed.

### HOW ARE CRACKS OR JOINTS HANDLED?

Static cracks are sealed. Moving joints require additional flexible sealing materials.

### HOW DOES RADCON PERFORM IN HOT OR COLD TEMPERATURES?

Application above 5°C. Once cured, it performs reliably under heat and frost.

### HOW CAN YOU TELL IF ENOUGH PRODUCT HAS BEEN APPLIED?

The surface must appear visibly wet when sprayed – dampening alone is not enough.

### HOW LONG DOES RADCON LAST?

The waterproofing is permanent – when properly applied, it lasts as long as the concrete itself.

## Technical Notes and Limitations:

### WHAT HAPPENS IF RADCON IS NOT APPLIED OR WATERED CORRECTLY?

If the surface is not watered soon after application, the product loses its effectiveness and cannot be reactivated.

### IS RADCON COMPATIBLE WITH OTHER WATERPROOFING SYSTEMS?

Yes, as long as they are applied before Radcon (e.g., acrylic membranes).

### ARE THERE CONCRETE TYPES WHERE RADCON DOESN'T WORK?

Yes. Concrete with high pozzolanic content (e.g., fly ash Type F, volcanic ash) contains too little free calcium.

### CAN RADCON BE USED WHERE NEGATIVE WATER PRESSURE OCCURS?

Only if the concrete is completely dry. For active pressure, crystalline systems like Radmyx are more suitable.

### DOES RADCON CHANGE THE APPEARANCE OF CONCRETE?

A slight sheen may appear initially. No long-term visible changes.

### WHAT EQUIPMENT IS NEEDED FOR APPLICATION?

Small areas: hand sprayer. Large areas: motorized sprayers covering up to 800 m<sup>2</sup>/h.