**VoRPA®**
ANCHORS & FIXINGS
*We know how*

**GOOD SITE PRACTICE FOR INSTALLERS**
BONDED ANCHORS / INJECTION RESIN Used in Concrete

ECAP
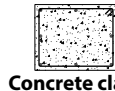EUROPEAN CONSORTIUM OF ANCHORS PRODUCERS

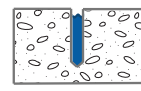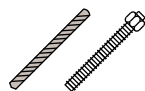# PREPARATION

## ENSURE THE RIGHT RESIN!

STRUCTURAL ANCHORS ARE VERY SENSITIVE TO INSTALLATION AND MUST BE INSTALLED ONLY IN CONJUNCTION WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DATA SHEET.
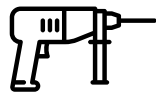
⚠ **Check the overall conditions**

| Concrete class | ☐ |
| ☐ |
| ☐ |
| ☐ |
| ☐ |
| ☐ |

## DO YOU HAVE ALL THE RIGHT TOOLS?

| DRILLING TOOL | BRUSH | AIR PUMP | GUN | NOZZLE | TORQUE WRENCH |
| ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
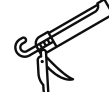
# INSTALLATION

## 1 DRILLING

⚠ **NEVER DRILL REBAR WITHOUT CHECKING WITH SITE ENGINEER**

**DRILL PERPENDICULAR!** 90º $d_0$ $h_{ef}$
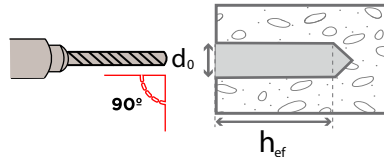
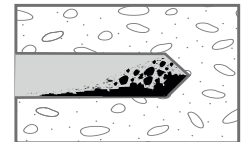**CHECK:**
☐ **DRILL DIAMETER** = $d_0$
☐ **HOLE DEPTH** = $h_{ef}$

## 2 HOLE CLEANING
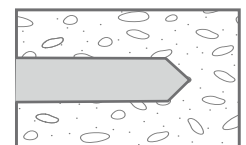
**BRUSHING + BLOWING***
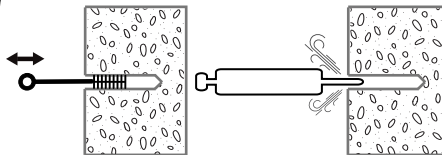
❌ **POOR HOLE CLEANING**
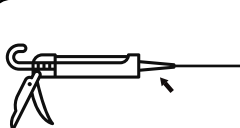
⚠ **CLEAN!** POOR HOLE CLEANING IS DANGEROUS!

✔ **CORRECT HOLE CLEANING**

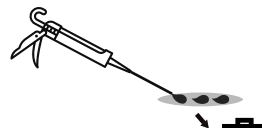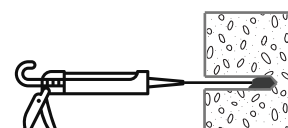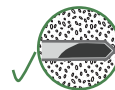* CHECK MANUFACTURER'S DATA SHEET

## 3 INJECTING

ATTACHING NOZZLE

CHECK MIXING WASTE FIRST PART

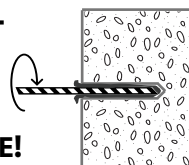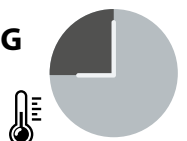INJECTING – NO AIR VOIDS

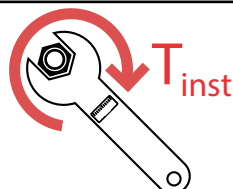## 4 INSERTING

**DON'T WAIT TOO LONG! CHECK WORKING TIME!**

## 5 CURING

**WAIT! CHECK CURING TIME!**

## 6 TIGHTENING

$T_{inst}$

⚠ **MEASURE!** TOO MUCH/LITTLE TORQUE IS DANGEROUS!