

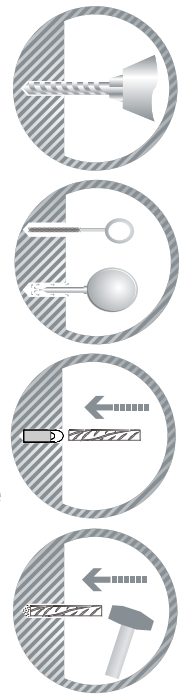
## Hammer-in Capsules HPK

The simple solution for difficult fixing problems

- **Usage:**  
 Mainly in reinforced concrete e.g. to fix ribbed rebar.
  
- **Properties:**
  - To set use a hammer to knock in the rebar/anchor stud - no special tools necessary.
  - Exact dosage of resin system.
  - Stress-free fixing by bonding between fixing element and drill hole wall.
  
- **Hammer-in Capsules HPK:**  
 The hammer-in Capsules consist of an inner glass tube filled with a resin mixture and surrounded with hardener. By knocking in the rebar/anchor stud the glass tube breaks and both components are mixed and take up the space between rebar/anchor stud and drill hole wall. After hardening, loads can be applied to the rebar/anchor stud.

● **Directions:**

- Drill hole (see technical data).
- Brush and blow out the dust from the drill hole.
- Check the capsule before using. The capsule can be used if it is undamaged and the resin is viscous. Insert the capsule into the drill hole.
- Use a hammer to drive the rebar or the anchor stud into the drill hole. Notice the curing times. In case of wet base material the curing time has to be doubled.



● **Reaction Times:**

|                         |       |     |         |        |        |
|-------------------------|-------|-----|---------|--------|--------|
| Anchor base temperature | [°C]  | >20 | 20 - 10 | 10 - 0 | -5 - 0 |
| Curing Time             | [min] | 15  | 30      | 60     | 300    |

● **Technical Data:**

**HPK guidelines for concrete  $f_c = 25 \text{ N/mm}^2$ .**

| <b>Rebar:</b>                            |      | <b>HPK 10</b> | <b>HPK 12</b> | <b>HPK 16</b> | <b>HPK 20</b> | <b>HPK 24</b> |
|--|------|---------------|---------------|---------------|---------------|---------------|
| Rebar diameter                           | [mm] | 10            | 12            | 16            | 20            | 24            |
| Hole diameter                            | [mm] | 13            | 15            | 20            | 24            | 30            |
| Hole depth                               | [mm] | 90            | 110           | 140           | 180           | 210           |
| Recommended load for all load directions | [kN] | 8             | 10            | 17            | 27            | 40            |

| <b>Anchor stud:</b>                      |      | <b>HPK 10</b> | <b>HPK 12</b> | <b>HPK 16</b> | <b>HPK 20</b> | <b>HPK 24</b> |
|--|------|---------------|---------------|---------------|---------------|---------------|
| Anchor stud diameter                     | [mm] | 10            | 12            | 16            | 20            | 24            |
| Hole diameter                            | [mm] | 12            | 14            | 18            | 25            | 28            |
| Hole depth                               | [mm] | 90            | 110           | 125           | 170           | 210           |
| Recommended load for all load directions | [kN] | 5,6           | 7,0           | 11,9          | 18,9          | 28            |

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