



CIVILSET®

COMMERCIAL POST HOLE MIX



AVAILABLE SIZE:
25KG

YIELD 25kg bag

Most post holes will need at least two bags of CivilSet®. This table should be used as a guide only. Quantities indicated are based on a 100mm x 75mm post and a 250mm hole diameter. One 25kg CivilSet® bag makes 0.010m³ of concrete.

| Height of post above ground | Length of post below ground (hole depth) | Bags per hole |
|-----------------------------|--|---------------|
| 2.4 | 0.8 | 2.4 |
| 2.1 | 0.7 | 2.1 |
| 1.8 | 0.6 | 1.7 |
| 1.5 | 0.5 | 1.4 |
| 1.2 | 0.4 | 1.1 |
| 0.9 | 0.3 | 0.7 |

Dricon® Civil Set® is a fast setting premixable early strength concrete. It consists of a uniformly blended mixture of graded sands, Aggregate, EcoSure Low Carbon Cement, and specialised admixtures. Can be used like RapidSet™ (ie. poured into a hole containing water), or can be quickly pre-mixed with water in a wheelbarrow or bucket similar to HandiCrete®, providing flexibility of installation. Ideal for porous soil applications and general civil works requiring a quick setting concrete with a higher strength than normal. Dricon® CivilSet® is grey in appearance but can be coloured using selected Dricon® Oxitone® Oxides. It can also be further enhanced by using Dricon® Concrete Treatment.

COMPRESSIVE STRENGTH

30MPa after 28 days.

WATER CONTENT

25kg - 2.6 to 3.4 litres per bag

CIVIL (PRE-MIXING) APPLICATIONS: MIXING

In a wheelbarrow add water followed by contents of CivilSet® bag. Mix quickly (1-3 minutes) until a suitable blend is achieved, remembering that the set time is 15 minutes. Because of the quick set time, your ideal CivilSet® mix may not be the same consistency of porridge like that of general concretes.

POURING

Pour into area and work the concrete sufficiently to ensure it reaches all corners

and you remove all air bubbles. This can be done with a shovel, spade or rod. As CivilSet® sets faster than normal concretes, care must be taken to ensure it has been worked in to all areas in approx. 2-3 minutes.

LEVELING OFF/FINISHING

If required, quickly level off with a straight edge and then finish with a trowel or flat piece of wood. With a 15 minute set time a smooth finish may not be achievable in all instances. Remember CivilSet® is not a pure alternative to HandiCrete® or CivilCrete®.

DRYING AND CURING

If the surface is to remain visible, for the first 7 days the freshly poured concrete should be protected from both sun and frost and be kept moist. If the concrete is to be covered by soil or gravel then do so as soon as it has set. CivilSet® will attain 20MPa in 3 days and 30Mpa in 28 days.

POST HOLE APPLICATIONS:

PREPARE POST HOLE

Dig out post hole then position the post in the hole. To ensure a secure and stable 'fit' make sure the diameter of your hole is approximately three times the diameter of the post. You should have at least 1/4 of the post in the ground and an additional gap of 100mm at the top for soil reinstatement.

FILL BUCKET WITH WATER

Water required per 25kg bag: 2.6 - 3.4l. Fill bucket with enough water for the number of bags required for the hole and set aside.

PRE-SOAKING

Using a hose, pre-soak the walls of the hole and the area of post that will be covered by concrete.

JUST ADD WATER

Pour water into the hole (most post holes will need around 2 bags of CivilSet® and up to 6.4 litres of water. See table below). If the soil is too porous and there is water loss prior to pouring in the bag contents, follow the Civil (premixing) application method. Steadily add in CivilSet®. Take your time, allow approximately 1 minute per bag. DO NOT POUR TOO FAST. If there is any dry material left on the top then sprinkle a small amount of water on it to wet it.

FINISHING

Align the post and leave CivilSet® to harden. The initial 15 minute set time will see the product harden yet it will still have a 'wet look' and will be spongy to the touch. This is important for long term strength integrity and is normal. Whilst CivilSet® will set in 15 minutes, allowing you to continue with the next post, please wait at least one hour before commencing light work on the post such as attaching rails with a nail gun. CivilSet® will attain 20MPa in 3 days and 30MPa in 28 days.

SUITABLE PROJECTS

- Foundations
- Retaining Walls
- Bollards
- Sun Shade Posts
- Remote Location Sites
- Road Signage
- Sump, Manhole Bases and Connections
- Manhole Benching

IMPORTANT INFO

CivilSet® can be used in the same D.I.Y way as standard RapidSet™ (i.e. no mixing or post hole bracing is required) or it can be very quickly pre-mixed in a wheelbarrow immediately prior to use. Pre-mixing of CivilSet® should only be undertaken by experienced contractors due to the 15 minute set time. Do not mix CivilSet® in a concrete mixer. As with all Dricon fast setting products, CivilSet® uses an advanced fast setting additive technology that makes it ideal for structural use. The additive ensures that CivilSet® will not undergo long term expansion, which is something that other additives can cause. In addition, a further special additive has been added to CivilSet® to allow some quick initial pre-mixing without disrupting the fast setting properties. CivilSet® should not be dry packed into holes.

PRODUCT INFORMATION

| | |
|------------------------------------|---|
| PACKAGING | Paper bag |
| SIZE | 25kg |
| SHELF LIFE | 12 Months from date of production |
| STORAGE | Keep in dry location free of moisture |
| COLOUR | Grey |
| GRAIN SIZE | Up to 12mm |
| WATER DEMAND PER KG | 0.10 to 0.14 litres |
| WET DENSITY | Approximately 2350 kg/m ³ |
| WORK TIME | 2-3 minutes |
| INITIAL SET TIME | 15 minutes |
| APPLICATION THICKNESS | No less than 40mm |
| APPLICATION TEMPERATURE | 5 to 30°C |
| COMPRESSIVE STRENGTH 3 DAY | > 20 MPa |
| COMPRESSIVE STRENGTH 7 DAY | > 22 MPa |
| COMPRESSIVE STRENGTH 28 DAY | > 30 MPa |
| SAFETY INFORMATION | Refer to the Safety Data Sheet on our website |

GENERAL INFORMATION

If only part of the bag is required, mix the entire contents of the bag together first in a dry state, return the unwanted portion to the bag or alternatively a dry sealed container, then follow the instructions.

All mortars and concrete products may exhibit a temporary 'whitening', otherwise known as efflorescence which neither affects strength nor durability.