

Chryso® Corrocrete 554

Corrosion Inhibitor

DESCRIPTION

Chryso® Corrocrete 554 is a bipolar corrosion inhibiting admixture in liquid form for reinforced concrete and mortar. It provides outstanding resistance against corrosion of rebar.

Chryso® Corrocrete 554 is a migratory corrosion inhibiting admixture for reinforced structures. It forms a unimolecular protective layer on the surface of steel, thereby inhibiting corrosion.

Chryso® Corrocrete 554 is based on amine technology (amine alcohols and amine carboxylates).

It is classified as mixed inhibitors, affecting both anodic and cathodic portions of a corrosion cell.

BENEFITS

- By using, **Chryso® Corrocrete 554** the life expectancy and durability of the structure will substantially increase.
- It migrates as liquid through the concrete matrix via capillary action and migrates in a vapour phase throughout the concrete pore structure forming a mono-molecular layer.
- Protects concrete from the destructive influences of reinforcement corrosion.
- Do not have any negative effects on the properties of fresh and hardened concrete.
- Non-toxic, eco-friendly.

PACKAGING

- 210 L drum
- IBC 1000L
- Bulk delivery on request

FIELDS OF APPLICATION

- **Chryso® Corrocrete 554** can be used in reinforced concrete subjected to aggressive corrosive environment specifically in chloride induced corrosion.
- It is very suitable for concrete in foundation sub-structures, piers, piles, and concrete dock structures.
- Bridges, highways, chlorinating plants, sewerage systems tunnels, retaining walls, industrial plants, park decks in multi-storied car parks etc.
- Building facades and balconies.

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INDICATIVE INFORMATION

Product Nature	Liquid
Color	Light brown
Lifetime	12 months
Water solubility	Fully miscible.
Specific gravity	1,073 ± 0,020
pH	12,00 ± 2,00
Dynamic viscosity (20°C)	23 mPs.s ± 10,00

METHOD OF USE

- **Chryso® Corrocrete 554** can be added to the mixing water or later, on concrete. Should the product be added to fresh concrete, into the mixing truck, it is necessary to mix at high speed at 1 minute per m³ of concrete (at least 6 minutes).
- The quantity of **Chryso® Corrocrete 554** in the mix design should be taken into consideration when determining the quantity of water for a specific water to cement ratio (w/c).
- **Chryso® Corrocrete 554** is completely miscible in water. It should be added along with the mixing water to maximise its effect. The correct quantity should be measured using a recommended dispenser. It should not mixed with dry cement.
- Because local job conditions vary, please contact your local CHRYSO sales representative for further assistance.
- **Chryso® Corrocrete 554** is recommended to be used at a ratio of 1.5 – 2.0 liters per cubic meter of concrete. Dosage rate will be dependent on concrete mix design as required by the project specifications.
- It can also be added at the same dosage rate into repair mortars and grouts.

PRECAUTIONS

- **Chryso® Corrocrete 554** is compatible with all types of Portland cement, class C and F fly ash, slag, micro silica, fibers and approved air entraining admixtures.
- Store in dry conditions at temperatures between +10°C and +40°C.
- Protected from direct sunlight and frost.
- **Chryso® Corrocrete 554** is compatible with other CHRYSO admixtures when used in the same concrete mix but should be added to the mix separately and must not be mixed together prior to addition.

SAFETY

Prior to any use, please read carefully the Material Safety Data Sheets.