

5.2 Special building mortars

DUROSTICK DS-240 Fast setting, non shrinking cementitious repair mortar



TECHNICAL SPECIFICATIONS (Measurement conditions 20°C and 50% R.H.)

Form - Color	Cementitious mortar - Gray
Toxic	No
Bulk density of dry mortar	1.48±0.05 kg/lt
Bulk density of fresh mortar	2.30±0.05 kg/lt
Maximum grain size	1.70 mm
Application temperature	From +5°C to +35°C
Temperature resistance	From -30°C to +120°C
Water requirement	5.0 lt water in 25 kg mortar
Pot life	60 minutes
Shrinkage per ASTM C596	Negligible
Resistance to moisture and frost	Very good
Chlorides content per EN 1015-17	<0.05%

MECHANICAL STRENGTHS

Flexural strength, per EN 12190, after:	
• 28 days	8.80±1.20 N/mm ²
Compressive strength, per EN 12190, after:	
• 48 hours	22.00±2.00 N/mm ²
• 7 days	37.00±2.00 N/mm ²
• 28 days	58.00±1.50 N/mm ²
Adhesion to concrete, per EN 1542	≥ 2,10 N/mm ²
Modulus of elasticity, per EN 13412	≥ 22 GPa
Resistance to carbonation	Yes
Adhesion after 50 freeze thaw cycles, per EN 13687-1	≥ 2.00 N/mm ²
Capillary water absorption w, per EN 13057	w<0.45 kg/m ² .h ^{0.5}

CONSUMPTION

Approximately 17kg/m²/cm thick coat.

STORAGE

Store in the factory sealed packages, in dry and shaded places for at least 12 months from production date.

SAFETY DIRECTIONS

The product contains Portland cement. Before use, refer to the cautions on the product packaging or the Material Safety Data Sheet.

NOTE

After hardening, the product is harmless to health and the environment.

PACKAGING

Paper bag of 25kg on 1,200kg pallet

PROPERTIES

Ready mixed, non-shrinking mortar that sets and cures fast. Its special formula contains corrosion inhibitor and silicate aggregates, stainless metallic microspheres, as well as high strength polypropylene fibers and polymers.

Just add water to create an easy to use mortar with minimal shrinkage. The mortar does not crack and has impressive surface hardness and strength.

Distinguished for its high durability over time, moisture and alkaline environments.

It also excels for its high compressive strength and resistance to impact and vibration.

Classified PCC R4 as concrete repair product, per EN 1504-3.

APPLICATIONS

DUROSTICK DS-240 is suitable for industrial floor repairs (pic.4), restoration of manhole openings (pic.1) as well as general road applications and special construction operations.

Due to its minimal shrinkage and its unique mechanical strengths, it is suitable for precision anchoring (pic.2). Ideal for restoring columns and walls

as a repairing outer shell, enveloping the connecting reinforcing bars, by pouring it into the formwork (pic.3).

It is recommended for quick repairs in projects demanding rapid return to service, such as road projects, airport works etc.

USE

1. Surface preparation

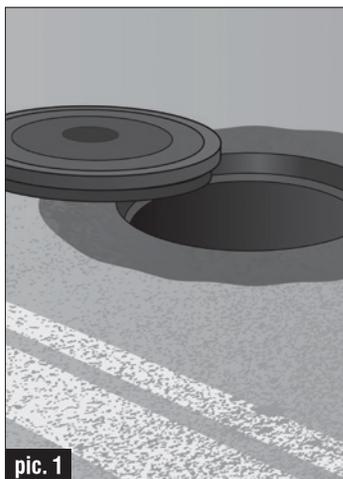
Application surfaces have to be sound and free of oils, loose materials, and dust. Soak the surfaces before application, without pooling any water on them.

2. Application

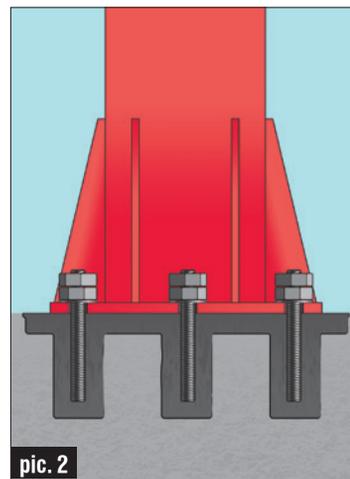
Empty 25kg DS-240 mortar into a clean container with 5.0lt of clean, cool water. Mix with a low rpm electric mixer or a cement mixer, until a lump free, ready to use, homogeneous mass is created. The mixture remains workable for 60 minutes. Depending on the application, apply it with a gauging trowel or by injection machine

HELPFUL TIP

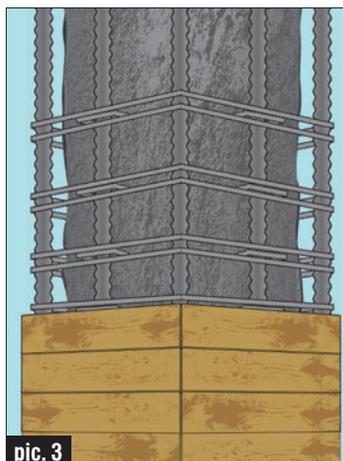
For column and wall repairs, add 100gr DUROSTICK HYDROSTOP D-34 concrete plasticizer for every 2 bags of DS-240. It will increase the rheological properties of the mortar and reduce the need to vibrate.



pic. 1



pic. 2



pic. 3



pic. 4