



Hydrothane CG

Polyurethane Coving Screed

USES

HYDROTHANE CG is a high strength coving screed with excellent resistance to mechanical damage and chemical attack. The product is used in conjunction with Conren's Hydrothane range of polyurethane screeds whenever there is a requirement for coving. There is also an antibacterial grade of Hydrothane CG available, please refer to Conren's Technical Services Department.

DESCRIPTION

HYDROTHANE CG is a four-pack solvent free polyurethane coving screed formulated from carefully selected resins, activators and specially graded high strength aggregates. The product is laid with a coving trowel between 3mm and 6mm thickness.

ADVANTAGES

Durable	excellent abrasion resistance, low maintenance costs
Chemically resistant	excellent resistance to a wide range of chemicals
Seamless	eliminates potential sources of failure
Hygienic	prevents the build-up of dirt and detritus at perimeter walls and upstands

PHYSICAL PROPERTIES

Compressive Strength	46 N/mm ²
Tensile Strength	7 N/mm ²
Flexural Strength	10 N/mm ²
Specific gravity	1.67
Pot Life	15 mins
Softening Point	101°C
Service Traffic	24 hours
Full Strength	5 - 7 days
(Below 20°C these times will be increased)	

CHEMICAL RESISTANCE

HYDROTHANE CG is resistant to a wide range of chemicals. Specific data is available on request from the Technical Services Department.

COLOURS

HYDROTHANE CG is available in Red, Green, Light Grey, Dark Grey, Cream, Yellow and Orange.



TEMPERATURE

It is not advisable to install Hydrothane CG when the ambient or slab temperature is below 16° C or above 22° C. Should the installation temperature be above or below these figures, please refer to the preparation and finishing detail datasheet.

SURFACE PREPARATION

It is essential that the substrate surfaces are correctly prepared prior to application. New concrete or cementitious substrates should have been placed for at least 28 days, unless specially water reduced and give a protimeter reading of less than 75% RH before topping with Hydrothane CG. All substrates should be sound and free from contamination with oil, grease and other matter. Any oil or grease contamination must be removed completely to provide a sound clean substrate and laitance should be removed. Old concrete floors should also be prepared in order to provide a sound clean substrate. Please refer to the preparation and finishing detail datasheet for further details

PRIMING

All substrates to receive Hydrothane CG should be primed with Hydrothane Coving Primer and should be applied in the following way: - Mix the Primer Base and Hardener together until homogeneous, using a spatula or slow speed drill and paddle. The primer should be applied as a thin continuous film using stiff brushes or a short pile mohair roller whilst avoiding over application and puddles. The primer should be allowed to cure for 1-1 ½ hours, depending on the ambient air temperature, before applying Hydrothane CG. Hydrothane Coving Primer should remain tacky throughout the application of Hydrothane CG. If for any reason work stops and the Hydrothane Coving Primer becomes hard, this area should be abraded and a second coat of Hydrothane Coving Primer be applied.

Hydrothane Coving Primer

Pack size		Coverage
Base	3.48 kg	Approx 20 m ² per 4.88 kg pack
Hardener	1.40 kg	
TOTAL	4.88 kg	

MIXING AND APPLICATION

HYDROTHANE CG is supplied in pre-weighed packs ready for on site use.

Mechanical mixing is essential and the following mixing equipment is suitable:

- Crete-angle
- Single Blade
- Stelram Engineering G8 – Single Blade
- Mixal MR40
- Collomatic

Hand mixers must not be used.

MIXING PROCEDURE

- Position the mixer as near to the working area as possible.
 - Ensure that the components are at a temperature in the range 10 - 28° C, preferably 16 – 22° C.
 - Pour the entire Base into the mixer and switch on. Add the entire Hardener and blend for 30-60 seconds to create a uniform dispersion, add the Pigment sachet and continue to mix.
 - Gradually add the Aggregate whilst mixing continues and mix until the Aggregate and Pigment is thoroughly dispersed and the mix is uniform.
- If the stored components are already warm, over mixing must be avoided as this will speed up the cure rate, leading to a decreased working life. Mixing time is judged with experience, the table below should be used as a guide only.

Components Temp °C	Mixing Time After Aggregate Addition (min)
10 - 12	4
13 - 15	3
16 - 22	2
23 - 28	1.5

NOTES: It is important that the mix is placed on to the substrate quickly and the mixing of the subsequent batch starts straight away, this ensures good uniformity between mixes. Ensure the time between mixes is kept to a minimum, the mixer should either have two mixing buckets which are rotated or the facility to tip the mixed contents into a separate container i.e. wheelbarrow (plastic lined). Incorrect mixing may lead to poor aggregate dispersion, poor flow, excessive trowel marking, pimples or blisters in the cured floor or surface unevenness.

Scrape out the mixing vessel and paddles between mixes and thoroughly clean them whenever mixing has ceased for 5 mins or more. Solvents such as white spirit and xylene may be used for cleaning; care must be taken to ensure solvents do not spill into components, mixes or onto coated floors. Do not use solvent in food environments; refer to Conren's Technical Services.

To minimise the risk of shade variation:

- The components should be used in numerical sequence of batch numbers
- Adjacent areas should be laid with product from the same batch
- Use a constant mixing time (except where significant temp. variations occur)
- Keep the mix size consistent i.e. single or double
- Ensure adequate mixing time at low temperatures

APPLICATION

- Spread the mix immediately over the primed substrate using a coving trowel, a normal application being in layers of 3-6mm and allow overnight curing between layers.
- Apply a further coat of Hydrothane Coving Primer before adding subsequent layers of Hydrothane CG.

COVERAGE & PACK

Pack size	Coverage
Base 1.02kg	3mm Approx 1.7m ² per pack
Hardener 1.10kg	6mm Approx 1.0m ² per pack
Aggregate 11.30kg	
Pigment 0.5kg	
TOTAL 13.92kg	

DISPOSAL AND STORAGE

Spillage should be absorbed with sand or sawdust and disposed of in accordance with statutory regulations. For storage information please refer to the preparation and finishing detail datasheet for further details.

PRECAUTIONS

Containers should be kept tightly sealed when not in use. In the event of fire extinguish with CO² or foam. Hydrothane CG and Primers should not be allowed to come into contact with skin or eyes or be swallowed. Gloves, goggles and suitable barrier cream should therefore be used. Hydrothane CG Hardener contains Isocyanates and care should be taken to keep inhalation of vapours to a minimum. Ensure adequate ventilation and if working in enclosed areas. Suitable breathing apparatus must be used. In the event that mixed resin comes into contact with the skin it must be removed before it hardens with a good quality resin removing cream, followed by washing with soap and water. Do not use solvent. If accidental eye contamination occurs irrigate with copious quantities of clean water and seek medical advice. If ingestion of any of the materials takes place seek medical attention immediately. Do not induce vomiting.

CONTRACTING SERVICE

Conren Limited offers a contracting service for the application of all Conren products. This facility is back by a comprehensive technical and after sales service. We are able to contend with most problems in the field.

TECHNICAL SERVICE & QUALITY ASSURANCE

All information provided in this leaflet is based on results obtained from our own experience and test and is given in good faith. The user will be deemed to have satisfied himself independently of the suitability of Conren's products for his own particular purpose. We guarantee to replace, free of charge, any goods supplied by us which are proved to our satisfaction defective, but, as the application of these materials is necessarily beyond our control, we will not accept responsibility for any damage or loss arising wholly or in part from these materials. Except as herein provided, any express or implied condition, warranty, statement or representation, statutory or otherwise as to the quality of the goods is expressly excluded.

SPECIFICATION

Polyurethane Coving Screed shall be Conren Hydrothane CG.

All products to be applied in accordance with Conren's written instructions.

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