

DURACON 404

Accelerator

April 2024

PRODUCT:

Duracon 404 is a low viscosity, yellow coloured liquid. It is used to accelerate the polymerisation when applying Duracon reactive resins.

USAGE:

Duracon 404 is used as an accelerator when a thorough thermoset cure cannot be achieved alone by the addition of the recommended amount of Duracon Catalyst to the Duracon reactive resins, or if curing would take too long because of very low temperatures, i.e. less than 0°C. The use of Duracon 404 does not cause any loss in cure or quality of the Duracon coatings. It only ensures the polymerisation process is accelerated.

IMPORTANT ADVICE:

A permanent hot water loading can result in a white discolouration of the Duracon 319. Hot water causes thermal tensions, that can lead to crackle cracks. Therefore, where Duracon 319 is used in areas of hot water loading, always gather waste or flowing water (particularly hot water) into channels and convey it into a proper drainage system. Provide for a sufficient number of gullies.

STANDARD PACKS:

1 kg and 5 kg.

SHELF LIFE:

Six months when stored in a cool and dry place and in original sealed packaging. The optimal storage temperature is 15-20°C.

PROPERTIES:

Liquid State		
Viscosity, 25°C	4.7 mPa*s	DIN 53018
Density, 25°C	1.00 g/cm ³	ISO 2811
Flash Point	+11.5°C	ISO 1516
Melting point /Range	+20°C	

APPLICATION:

The Duracon 404 is mixed together with the Duracon reactive resins when the ambient temperature is below 0°C in order to achieve full thermoset cure of the mixture within a satisfactory time period. Before mixing, it is important to ensure that the temperatures of the resin and the sand are not below 10°C. This means that they must be stored before mixing away from the area in which they will be applied. For safety reasons it is essential that Duracon 404 never comes into direct contact with the Duracon Catalyst. Therefore, Duracon 404 is added and stirred into the Duracon reactive resin **prior to** adding the Duracon Catalyst and fillers. The quantity of the Duracon 404 added depends on the relevant type of resin, the filler, the filling ratio and, of course, the room temperature during application. The required quantity of Duracon 404 is measured using a dosing syringe or a measuring cylinder. The following tables indicate examples for the dosing of Duracon 404 and the Duracon Catalyst.

Quantities for 5 litre preparations of **Duracon 223**. Levelling mortar 1:5, filled with natural quartz 0-7mm:

Temp °C	Duracon Catalyst % by weight	Duracon Catalyst % ml	Duracon 404 % by weight	Duracon 404 % ml
0°C	5	393	0.7	35
-10°C	5	393	1.4	70
-15°C	5	393	2.1	105
-20°C	5	393	2.8	140
-30°C	5	393	4.2	210

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Quantities for 10 litre preparations of Duracon 205 or 223 (any systems):

Temp °C	Duracon Catalyst % by weight	Duracon Catalyst % ml	Duracon 404 % by weight	Duracon 404 % ml
0°C	5	785	0	0
-10°C	5	785	1.05	105
-15°C	5	785	1.4	140
-20°C	5	785	2.1	210
-30°C	5	785	3.0	300

CONSUMPTION:

0.5 - 3.0% by weight of resin.

HEALTH AND SAFETY:

Suitable protective clothing, gloves, safety goggles, and respiratory equipment must be worn during mixing and application.

In case of contact with eyes, rinse immediately using tap water for a long period of time and consult a physician. In case of contact with skin, clean immediately using water and soap.

The product is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions.

For further information see our Material Safety Data Sheet.

WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURERS CONTACT DETAILS:

Manufacture location	Australia
Legal and trading name of manufacturer	Tremco CPG Pty Ltd.
Manufacturer address for service	12/4 Southridge Street, Eastern Creek, NSW 2766, Australia
Manufacturer website	
Manufacturer email	orders@tremco.com.au
Manufacturer phone number	+61 2 4648 0397