

Donplast® VMA

Concrete viscosity modifying admixture



DESCRIPTION

Donplast VMA is a ready to use, liquid admixture specially developed for producing self-consolidating concrete (SCC) with enhanced viscosity and controlled rheological properties.

When Donplast VMA is used in conjunction with superplasticizing admixtures, concrete exhibits superior stability with increased resistance to bleeding & segregation while maintaining the desired flow for proper placement and consolidation. Moreover, Donplast VMA contains no added chlorides or chemicals known to promote the corrosion of steel.

APPLICATIONS

Donplast VMA has been specially developed for Self-Consolidating Concrete (SCC) and can also be used for other types of concrete, where improved stability during transportation and placing is required.

The applications for Donplast VMA include:

- » Self-Consolidating Concrete (SCC).
- » Lean concrete mixtures.
- » Concrete containing “gap-graded” aggregates or manufactured sand.
- » Low fines content concrete.
- » Pumped concrete.

ADVANTAGES

- » Greatly minimizes or eliminates bleeding or segregation problems by improving cohesion of the mix.
- » Provides flexibility in mixture proportioning and batching.
- » Lower sensitivity against variations in the constituent materials and gap graded aggregates.
- » Evenly disperses aggregates within mix.
- » Facilitates placement of pervious concrete mixtures.
- » Improves stability during transportation.
- » Enhances surface appearance.

COMPATIBILITY

Donplast VMA is suitable to use with all types of Portland cement and cement replacement materials.

Donplast VMA is compatible with most admixtures used in the production of quality concrete including normal, mid-range and high range water-reducing admixtures and air entrainers. It is also compatible with typical accelerators, retarders, extended set-control admixtures, corrosion inhibitors, and shrinkage reducers. However, a field trial mixture is recommended to ensure appropriate performance.

TECHNICAL PROPERTIES @ 77°F (25°C):

Color:	Turbid liquid
Specific gravity:	1.00 ± 0.02
Chloride content:	Chloride-free

STANDARDS

Donplast VMA complies with the requirements of the Specification for Chemical Admixture for Concrete ASTM C494 as a Type S admixture depending on the used dosage.

METHOD OF USE

MIXING

Donplast VMA may be added to the concrete with the the mixing water to achieve optimum performance. Automatic dispenser should be used to dispense the correct quantity of Donplast VMA to the concrete mix. When used in conjunction with other admixtures, each admixture should be added separately into the concrete mix.

Alternatively, Donplast VMA admixture may also be added after all other concreting ingredients have been batched and thoroughly mixed, either at the batch plant or at the jobsite to correct a slight bleeding or segregation problem.

DOSAGE

Dosages of Donplast VMA will vary widely depending on w/c ratio and the gradation of the materials used. Consult DCP's representative for appropriate dosing suggestions.

Guidance dosage of Donplast VMA is 1 – 14 fl oz/100 lb (65 – 910 ml/100 kg) of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of Donplast VMA to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVERDOSAGE

Overdosage of Donplast VMA will cause the following:

- » Significant reduction in slump retention.

Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

Don Construction Products Inc.

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Donplast[®] VMA

CLEANING

Clean Donplast VMA with fresh cold water.

PACKAGING

Donplast VMA is available in 5 gal (19 litre) containers as well as 275 gal (1,041 litre) IBC totes. Bulk supply in tanker trucks is also available upon request.

STORAGE

Donplast VMA has a minimum shelf life of 6 months from date of manufacture if stored at temperatures between 35°F and 122°F (2°C and 50°C).

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Donplast VMA is not classified as a hazardous material. Donplast VMA should not come into contact with skin and eyes.

In case of contact with eyes, immediately flush with plenty of water and seek medical attention.

For further information, refer to the Material Safety Data Sheet.

FIRE

Donplast VMA is nonflammable.

WARRANTY

Unless expressly stated otherwise in the Sales Documents, the Limited Warranty shall expire on the expiry date listed on the Product's label or packaging. The full text of DCP's limited warranty is found in DCP's standard terms and conditions of sale (the "Terms"), which are available at [DCP Website/USA – Terms & Conditions](#). DCP's limited warranty is in all cases subject to, and conditioned upon, the Terms.

MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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DCP Building Excellence