



# Plastiment® SD1

## Compaction Aid and Strength Enhancer for Pre-Stressed Beams

### Technical Data Sheet

#### DESCRIPTION

**Plastiment SD1** is a liquid admixture, which is added to low cement content semi-dry concrete mixes. It is effective with lightweight, limestone and granite aggregates.

#### USES

Cost savings on block production.

#### ADVANTAGES

- \* Contains a compaction aid, bringing a degree of concrete strength and consistency impossible to achieve prior to the introduction of this admixture
- \* Greater degree of mobility of the concrete enables faster production cycle times
- \* Higher strengths, especially in the first 24 hours - possibility to save cement and costs
- \* Closer textured top and side surfaces are achieved
- \* Easier compaction leads to faster production and much improved strength attainment characteristics
- \* Extremely economical in use

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Specific gravity:</b>	1.035
<b>Dosage % by wt of cement:</b>	0.4 - 1.0
<b>Air entrainment:</b>	Slight
<b>Chloride content % w/w:</b>	Nil (ie less than 0.1% w/w)
<b>Freezing point °C:</b>	-1°C

All above values are approximate.



## METHOD OF USE

**Plastiment SD1** should be dispensed with the mix water into semi-dry concrete mixes.

## DISPENSING

Because it is in liquid form, **Plastiment SD1** is simple to dispense into the concrete mix.

## EFFECTS OF OVERDOSING

Slight retardation.

## COMPATIBILITY

**Plastiment SD1** is compatible with all **Sika** Admixtures.

## IMPORTANT NOTES

The concrete's aesthetic quality, strength and durability are all enhanced by the use of **Plastiment SD1**.

## PACKAGING

Refer to latest price list.

## STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse conditions (+5°C - +25°C). Protect from frost.



### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

### Important Note

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**Please consult our Technical Sales Department for further information**

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# Plastiment® SD1

## Plasticiser for Building Block Producers

### Technical Data Sheet

#### DESCRIPTION

**Plastiment SD1** is a liquid admixture, which is added to low cement content semi-dry concrete mixes. It is effective with lightweight, limestone and granite aggregates.

#### USES

Cost savings on block production.

#### ADVANTAGES

- \* Contains a compaction aid, bringing a degree of concrete strength and consistency impossible to achieve prior to the introduction of this admixture
- \* Greater degree of mobility of the concrete enables faster production cycle times
- \* Higher strengths, especially in the first 24 hours - possibility to save cement and costs
- \* Closer textured top and side surfaces are achieved
- \* Easier compaction leads to faster production and much improved strength attainment characteristics
- \* Extremely economical in use

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Specific gravity:</b>	1.035
<b>Dosage % by wt of cement:</b>	0.4 - 1.0
<b>Air entrainment:</b>	Slight
<b>Chloride content % w/w:</b>	Nil (ie less than 0.1% w/w)
<b>Freezing point °C:</b>	-1°C

All above values are approximate.



## METHOD OF USE

**Plastiment SD1** should be dispensed with the mix water into semi-dry concrete mixes.

## DISPENSING

### **Plastiment SD1.**

Because it is in liquid form, **Plastiment SD1** is simple to dispense into the concrete mix. Standard equipment can be used.

## EFFECTS OF OVERDOSING

Slight retardation.

## COMPATIBILITY

**Plastiment SD1** is compatible with all **Sika** Admixtures.

## IMPORTANT NOTES

- \* The concrete's aesthetic quality, strength and durability are all enhanced by the use of **Plastiment SD1**.
- \* Generally, the concrete produced is less prone to damage from early age handling.
- \* Absorption and efflorescence are reduced with susceptible material sources.
- \* There is less strength variation across the area of the mould box.

## PACKAGING

Refer to latest price list.

## STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse conditions (+5°C - +25°C). Protect from frost.



### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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# Plastiment® SD2

## Compaction Aid and Strength Enhancer for Cast Stone Production

### Technical Data Sheet

#### DESCRIPTION

**Plastiment SD2** is a liquid admixture, which greatly assists compaction and improves the degree of finish achieved on the cast stone production.

#### USES

- \* Contains a compaction aid, bringing a degree of concrete strength impossible to achieve prior to the introduction of this admixture
- \* Greater degree of cement utilisation ensuring a stronger, more durable artificial stone product
- \* Appreciably higher strengths, especially in the first 24 hours - possibility to save cement and costs
- \* Closer textured top and side surfaces and harder arrisses are achieved
- \* Easier compaction leads to much improved strength attainment characteristics
- \* Extremely economical in use

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Light straw/clear
<b>Specific gravity:</b>	1.01
<b>Dosage % by wt of cement:</b>	0.4 - 1.0
<b>Chloride content % w/w:</b>	Nil (ie less than 0.1% w/w)
<b>Freezing point °C:</b>	-1°C

All above values are approximate.

#### ADVANTAGES

- \* The concrete's aesthetic quality, strength and durability are all enhanced by the use of **Plastiment SD2**.
- \* Because it is in liquid form, **Plastiment SD2** is simple to dispense into the concrete mix.
- \* Permeability is reduced and waterproofing abilities enhanced.
- \* Placing of the concrete is easier, minimising the efforts taken to produce an excellent product.



## METHOD OF USE

**Plastiment SD2** should be dispensed with the mix water into semi-dry concrete mixes.

## PACKAGING

**Plastiment SD2** is supplied in 200 litre drums and in bulk.

## STORAGE AND SHELF LIFE

**Plastiment SD2** should be stored in dry conditions above 0°C in original sealed containers.

The shelf life of **Plastiment SD2** under these conditions is a minimum of 12 months.



### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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# Plastiment® SD4

## Early Age Accelerator and Strength Enhancer for Building Blocks

### Technical Data Sheet

#### DESCRIPTION

**Plastiment SD4** is a liquid admixture, which greatly assists compaction and facilitates the passage of the concrete through the production machinery. It contains a chloride containing accelerating admixture within the formulation, designed to improve the early age strength development of the concrete blocks.

#### USES

- \* Contains a compaction aid, bringing a degree of concrete strength impossible to achieve prior to the introduction of this admixture
- \* Greater degree of mobility of the concrete enables faster concrete placing times
- \* Higher strengths, especially in the first 12 to 24 hours - possibility to save cement and costs
- \* Closer textured top and side surfaces are achieved
- \* Easier compaction leads to faster production and much improved strength attainment characteristics
- \* Extremely time efficient especially when the blocks are cast in an unheated building or egglays used outdoors.

#### ADVANTAGES

- \* The concrete's aesthetic quality, strength and durability are all enhanced by the use of **Plastiment SD4**
- \* Because it is in liquid form, **Plastiment SD4** is simple to dispense into the concrete mix
- \* Generally, the concrete produced is less prone to damage from early age handling and can be bonded sooner.
- \* Absorption and efflorescence are reduced with susceptible material sources.
- \* There is less variation in strengths across the area of the mould box.

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	White/Opaque
<b>Specific gravity:</b>	1.17
<b>Dosage % by wt of cement:</b>	0.75 0.4 - 1.5 can be used
<b>Freezing point °C:</b>	-2°C

All above values are approximate.



## METHOD OF USE

**Plastiment SD4** should be dispensed with the mix water into semi-dry concrete mixes.

## PACKAGING

**Plastiment SD4** is supplied in 200 litre drums and in bulk.

## STORAGE AND SHELF LIFE

**Plastiment SD4** should be stored in dry conditions above 0°C in original sealed containers.

The shelf life of **Plastiment SD4** under these conditions is a minimum of 12 months.



### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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# Plastiment® SD5

Ultra High Cement Dispersion Admixture for Semi-Dry Concrete

## Technical Data Sheet

### DESCRIPTION

**Plastiment SD5** is a new generation admixture which provides excellent high strengths for cement economies with the added benefit of improved appearance.

### USES

- \* Concrete roof tiles
- \* Concrete pipes made semi-dry
- \* Concrete paviers
- \* Pre-stressed floor beams and any high cement content concrete made in a semi-dry format

### ADVANTAGES

- \* Cost effective
- \* Excellent surface finish
- \* Increased strength development
- \* Greatly improved impermeability
- \* Reduced shrinkage and reduced rate of carbonation
- \* Does not contain chloride or other steel corrosion ingredients
- \* Possible reduction of heating costs
- \* Less vibration is required
- \* Increased flexural and tensile strengths
- \* Increased durability

### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Straw
<b>Specific gravity:</b>	1.1
<b>Dosage % by wt of cement:</b>	0.15 - 0.35
<b>Chloride content % w/w:</b>	Nil (ie less than 0.1% w/w)
<b>Freezing point °C:</b>	-2°C

All above values are approximate.



## METHOD OF USE

**Plastiment SD5** is added with the initial mixing water to achieve excellent dispersion.

## COMPATIBILITY

**Plastiment SD5** is compatible with all **Sika** Admixtures.

## IMPORTANT NOTES

**Plastiment SD5** should be added to the gauging water to ensure maximum dispersion.

## PACKAGING

**Plastiment SD5** is supplied in 25 litre and 200 litre containers. Bulk deliveries can be arranged.

## STORAGE AND SHELF LIFE

**Plastiment SD5** should be stored in dry conditions above 0°C in original sealed containers.

The shelf life of **Plastiment SD5** under these conditions is a minimum of 12 months.



### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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# Plastiment® SD7

## Plasticiser for Semi-Dry Concrete

### Technical Data Sheet

#### DESCRIPTION

**Plastiment SD7** is an admixture specifically formulated for use in low cement content semi-dry mixes and is effective with all types of aggregate including furnace bottom ash.

**Plastiment SD7** is based on a blend of synthetic and refined natural admixtures which improve compaction and hydration without increase in water content

#### ADVANTAGES

- \* Manufactured under strict control using carefully selected raw materials.
- \* Efficient cement dispersion and hydration permits maximum economy.
- \* Increased 24 hour strength.
- \* Less prone to damage due to early age handling.
- \* Vibration and compaction are more efficient with consequent reductions in equipment wear.
- \* Absorption and efflorescence are reduced with susceptible mixes.

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Specific gravity:</b>	1.2 @ 20°C
<b>Dosage % by wt of cement:</b>	0.30 - 0.70
<b>Chloride content % w/w:</b>	Nil (ie less than 0.2% w/w)
<b>Freezing point °C:</b>	-1°C

All above values are approximate.



## METHOD OF USE

**Plastiment SD7** is supplied ready for use and should be added with the mixing water. Mixing time is unchanged.

## COMPATIBILITY

**Plastiment SD7** is compatible with all **Sika** Admixtures.

## PACKAGING

**Plastiment SD7** is supplied in 25 litre and 200 litre containers. Bulk deliveries can be arranged.

## STORAGE AND SHELF LIFE

**Plastiment SD7** should be stored in dry conditions above 0°C in original sealed containers.

The shelf life of **Plastiment SD7** under these conditions is a minimum of 12 months.



### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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# Plastiment® SD8

## Plasticiser for Semi-Dry Concrete

### Technical Data Sheet

#### DESCRIPTION

**Plastiment SD8** is a low cost admixture specifically formulated for use in low cement content semi-dry mixes and is effective with lightweight, limestone and gravel aggregates.

**Plastiment SD8** is based on a blend of synthetic and refined natural admixtures which improve compaction and hydration without increase in water content.

#### ADVANTAGES

- \* Manufactured under strict control using carefully selected raw materials.
- \* Efficient cement dispersion and hydration permits maximum economy.
- \* Increased 24 hour strength.
- \* Less prone to damage due to early age handling.
- \* Vibration and compaction are more efficient with consequent reductions in equipment wear.
- \* Absorption and efflorescence are reduced with susceptible mixes.

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Specific gravity:</b>	1.19
<b>Dosage % by wt of cement:</b>	0.40 - 0.80
<b>Chloride content % w/w:</b>	Nil (ie less than 0.2% w/w)
<b>Freezing point °C:</b>	-1°C

All above values are approximate.



## METHOD OF USE

**Plastiment SD8** is supplied ready for use and should be added with the mixing water. Mixing time is unchanged.

## COMPATIBILITY

**Plastiment SD8** is compatible with all **Sika** Admixtures.

## PACKAGING

**Plastiment SD8** is supplied in 25 litre and 200 litre containers. Bulk deliveries can be arranged.

## STORAGE AND SHELF LIFE

**Plastiment SD8** should be stored in dry conditions above 0°C in original sealed containers.

The shelf life of **Plastiment SD8** under these conditions is a minimum of 12 months.



### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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# Plastiment® SD9

## Admixture for Concrete Roof Tile Manufacture

### Technical Data Sheet

#### DESCRIPTION

**Sika Plastiment SD9** is a liquid admixture, especially formulated for use in extruded concrete roof tiles.

#### ADVANTAGES

- \* Improved colour intensity - possibility to reduce pigment owing to improved dispersion in the mix
- \* Greater degree of impermeability of the concrete roof tile
- \* Higher strengths with existing cement contents
- \* Better compaction leading to closer textured surface
- \* Improved overall aesthetic appearance of tiles
- \* Significant levels of cement and cost savings with no loss of concrete quality, strength or durability
- \* Reduced incidence of efflorescence

#### BENEFITS

- \* Concrete quality, colour intensity, strength and durability are all enhanced by the use of **Sika Plastiment SD9**.
- \* Because it is in liquid form, **Sika Plastiment SD9**, is simple to dispense into the concrete mix.

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	brown
<b>Specific Gravity:</b>	1.174
<b>Dosage % by Wt of cement:</b>	0.4 - 1.0%
<b>Chloride Content % w/w:</b>	Nil (ie less than 0.1% w/w)
<b>Freezing point °C:</b>	-2°C

All above values are approximate.



## METHOD OF USE

For more information on Sika visit [www.barbourproductsearch.info](http://www.barbourproductsearch.info)

**Sika Plastiment SD9** should be dispensed with the mix water into the concrete mix.

## STORAGE AND SHELF LIFE

**Sika Plastiment SD9** should be stored in dry conditions above 0°C in original sealed containers.

The shelf life of **Sika Plastiment SD9** under these conditions is a minimum of 12 months.



### Handling Precautions

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**Please consult our Technical Sales Department for further information**

SIKA LIMITED

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# Plastiment® SD10

## Universal Admixture for Cast Stone Production

### Technical Data Sheet

#### DESCRIPTION

**Sika Plastiment SD10** is a liquid admixture, enabling any pigments used in the concrete to disperse more efficiently, greatly assisting compaction to be facilitated and acting as a permeability reducer.

#### USES

- \* Improved - colour intensity - possibility to reduce pigment contents when used
- \* Greater degree of impermeability of the concrete
- \* Higher strengths, especially in the first 24 hours - possibility to save cement and costs
- \* Contains a compaction aid, enabling closer textured surfaces to be achieved
- \* Easier compaction leads to faster production and much improved strength attainment characteristics
- \* Reduced incidence of efflorescence

#### BENEFITS

- \* Concrete quality, colour intensity, strength and durability are all enhanced by the use of **Sika Plastiment SD10**
- \* Because it is in liquid form, **Sika Plastiment SD10**, is simple to dispense into the concrete mix.

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Light brown
<b>Specific Gravity:</b>	1.035
<b>Dosage % by Wt of cement:</b>	0.4 - 1.0% by weight of cementitious materials
<b>Chloride Content % w/w:</b>	Nil (ie less than 0.1% w/w)
<b>Freezing point °C:</b>	-2°C

All above values are approximate.



## METHOD OF USE

For more information on Sika visit [www.barbourproductsearch.info](http://www.barbourproductsearch.info)

**Sika Plastiment SD10** should be dispensed with the mix water into semi-dry concrete mixes.

## STORAGE AND SHELF LIFE

**Sika Plastiment SD10** should be stored in dry conditions above 0°C in original sealed containers.

The shelf life of **Sika Plastiment SD10** under these conditions is a minimum of 12 months.



### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

### Important Note

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

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